

June 23, 1997

Mr. Gary Sink  
START X Project Officer  
U.S. Environmental Protection Agency  
1200 Sixth Avenue, Mail Stop ECL-116  
Seattle, WA 98101

RE: Contract 68-W6-0008  
TDD: 96-10-0006

Dear Gary:

Please find enclosed the final removal report for the Youngstrom Log Homes removal action in Blackfoot, Idaho. Removal activities occurred from November 7-21, 1996, and primarily involved the sampling, hazard characterization, and off-site disposal of approximately 1,000 drums and containers consisting of eleven different wastestreams. The site is located at an abandoned log home construction facility situated on the Fort Hall Indian Reservation, and it is believed the containers were brought to the site for disposal by third parties.

If you have questions or comments, please do not hesitate to contact me at (206) 624-9537.

Sincerely,

Noah Myers  
START Project Leader

JTK/jw

Enclosure

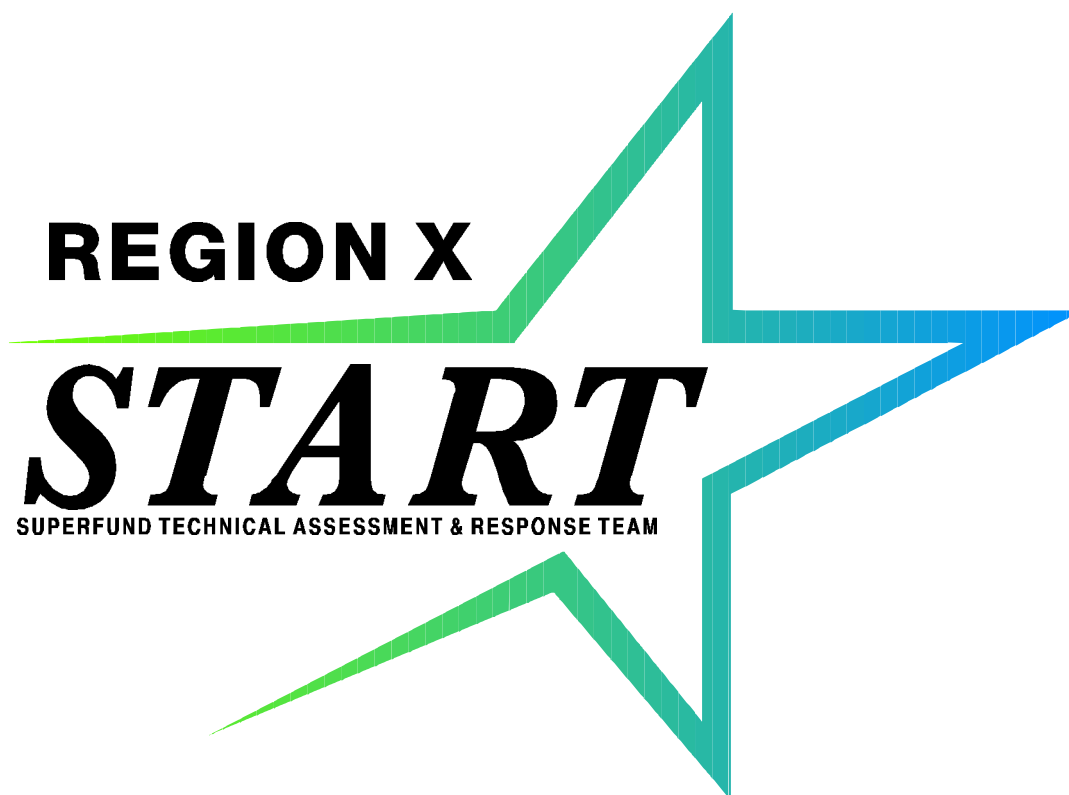
cc: Carl Kitz, On-Scene Coordinator, U.S. EPA, Seattle, WA (Mail Stop ECL-116)  
William Carberry, START Program Manager, E & E, Inc., Seattle, WA

# YOUNGSTROM LOG HOMES FINAL REMOVAL ACTION REPORT

**TDD: 96-10-0006**

Contract No: 68-W6-0008

June 23, 1997



Prepared for:



**EPA**

Office of Environmental Cleanup  
Region X

CARL KITZ  
ON-SCENE COORDINATOR

Prepared by:



**ecology and environment, inc.**  
Seattle, Washington (206) 624-9537  
International Specialists in the Environment

JERYL KOLB  
PROJECT MANAGER

## TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
<b>1.0 INTRODUCTION</b>	1
<b>2.0 SITE BACKGROUND</b>	1
2.1 Site History	1
2.2 Environmental Setting	1
2.3 Previous Investigations	3
<b>3.0 REMOVAL ACTIVITIES</b>	3
3.1 Objectives and Strategy	3
3.2 Chronology of Events	5
3.3 Drums and Containers	7
3.4 Investigation of Soil Contamination	8
3.5 Other Wastes	10
3.6 Final Waste Disposition	12
<b>4.0 COST SUMMARY</b>	12
<b>5.0 CONCLUSIONS</b>	12

## REFERENCES

## APPENDICES

<b>Appendix A</b>	<b>U.S. EPA Removal Assessment Report</b>
<b>Appendix B</b>	<b>Action Memorandum</b>
<b>Appendix C</b>	<b>Site Photographs</b>
<b>Appendix D</b>	<b>Pollution Reports</b>
<b>Appendix E</b>	<b>Container Inventory</b>
<b>Appendix F</b>	<b>Hazard Categorization Data</b>
<b>Appendix G</b>	<b>Immunoassay Test Kit Information</b>
<b>Appendix H</b>	<b>Uniform Waste Manifests</b>
<b>Appendix I</b>	<b>Idaho State Journal Newspaper Article</b>

## LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
<b>1 Site Location</b>	2
<b>2 Site Features</b>	4
<b>3 Test Pit Locations</b>	9

**FINAL REMOVAL ACTION REPORT  
YOUNGSTROM LOG HOMES  
BLACKFOOT, IDAHO  
TDD: 96-10-0006**

## **1.0 INTRODUCTION**

The U.S. Environmental Protection Agency (EPA) Region 10 Environmental Clean-up Office tasked the Ecology and Environment, Inc. Region 10 Superfund Technical Assessment and Response Team (START) to assist in time-critical removal activities at the Youngstrom Log Homes (Youngstrom) site located in Blackfoot, Idaho.

The site is located on property owned by the Shoshone-Bannock Tribe, who requested EPA assistance for removal activities after they determined they could not meet the financial demands required for a clean-up.

## **2.0 SITE BACKGROUND**

### **2.1 Site History**

The Youngstrom site is a former sawmill and fabricated log home construction facility located entirely within the boundaries of the Fort Hall Indian Reservation, and the jurisdiction of the Shoshone-Bannock Tribe. The property was leased by Mr. Lewis Youngstrom from the tribe starting on an unknown date. In addition to the log home business, Mr. Youngstrom apparently used the property to store solid and hazardous waste which he accepted from third parties, and conducted a small amount of gravel quarrying. No wood treatment operations have been alleged. The tribe revoked Mr. Youngstrom's lease in 1987, and he promptly abandoned the property. The site remains inactive and has increasingly become an attraction to vandals and trespassers (E & E 1992).

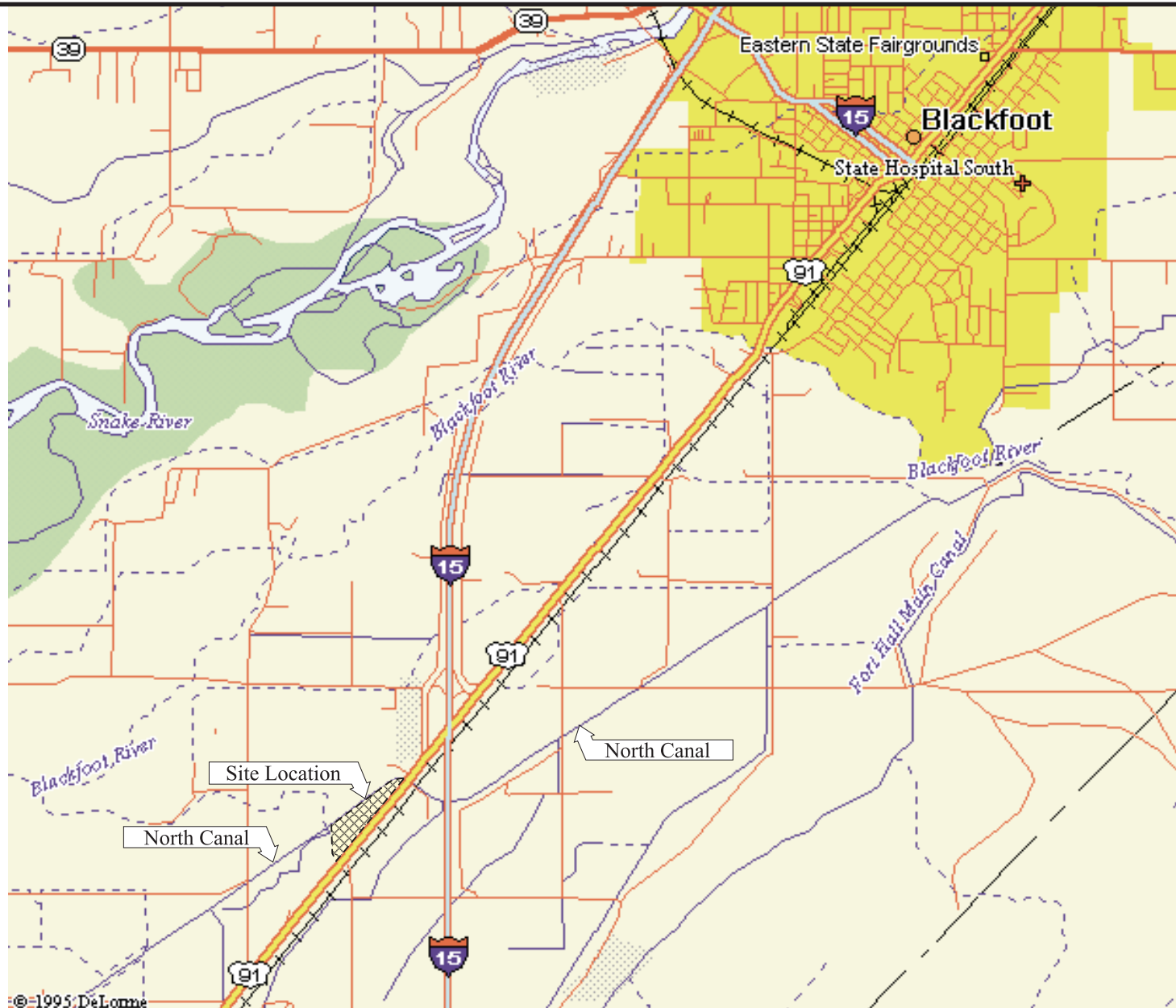
### **2.2 Environmental Setting**

The site is situated approximately three miles south of the town of Blackfoot, Idaho, in Bingham County, on the west side of State Highway 91 and approximately 0.5 miles south of Interstate 15 (Figure 1). The surrounding area is primarily rural and agricultural, and a few scattered homes are located within approximately one hundred yards of the site. A commercial cigarette business is also located immediately adjacent to the site property along Highway 91.

An agricultural irrigation canal forms the northern, and a portion of the western, site boundaries; Highway 91 borders the site on the east; and the remainder of the site is surrounded by agricultural property. While the approximately 10-acre site is fenced, this consists of a split log fence along the highway and a two-strand barbed wire fence around the remaining perimeter, and thus access can be gained by persons on foot. The northern half of the site consists of approximately 20 buildings of various sizes that were used for different wood-product activities. Most of these buildings are deteriorating and open to the elements, and all but two or three are constructed of wood. The remainder are fabricated from sheet metal.

The southern half of the site is largely open and vegetated with grasses and weeds. There are several piles of wood debris and soil, as well as stockpiles of containers varying in capacity from 55-gallons to 1-quart. There are also smaller piles of metal junk, empty vats and tanks, and abandoned





©1995 DeLorme



**ecology and environment, inc.**

International Specialists in the Environment  
Seattle, Washington

## YOUNGSTROM LOG HOMES Blackfoot, Idaho

No Scale Used

Figure 1  
**SITE LOCATION MAP**

Drawn By  
MRE

Date  
2-4-97

Job No.  
AJ0601RATO

Dwg.No.  
AJ0601F1

vehicles, as well as several trenches or pits where gravel was apparently excavated and removed. Some of these have been partially re-filled with sawdust (Figure 2).

### **2.3 Previous Investigations**

The EPA conducted an assessment of the site in 1992 in order to determine if removal activities were warranted. This assessment was precipitated by repeated requests for assistance from the tribe and observations of the site made by EPA Resource Conservation and Recovery Act (RCRA) inspectors during a routine compliance visit in 1991 (Appendix A)(E & E 1992).

The site assessment documented the presence of approximately 500 containers, some of which the contents appeared to have spilled or leaked onto the ground. Samples were collected from 16 of the containers and analyzed in the field for hazardous characteristics. Based on those results, seven of the samples were sent to a commercial laboratory for further analysis, which revealed a broad range of volatile organic compounds (VOCs), semivolatile organic compounds (semivolatiles), pesticides, and heavy metals. In addition, nine soil and two groundwater samples were collected. Elevated concentrations of semivolatiles and heavy metals were detected in the soil samples, which were collected primarily from biased locations around the container stockpiles. The two groundwater samples, which were collected from the on-site water well, did not contain any concentrations above primary or secondary Maximum Contaminant Levels (E & E 1992).

Based on these findings, the EPA recommended a removal action be conducted due to the threats represented by the containers and soil contamination, the accessible, remote nature of the site, and the continuing problem with trespassing. As part of the previous RCRA inspection, the EPA had attempted to contact Mr. Youngstrom, however he had died since abandoning the site. His son possessed very little knowledge of site operations, and repeated attempts by the tribe to fund a removal through Mr. Youngstrom's estate failed due to lack of funds. At this point, the tribe again requested assistance from the EPA (E & E 1992).

## **3.0 REMOVAL ACTIVITIES**

### **3.1 Objectives and Strategy**

Based on information obtained through the EPA site assessment and tribal representatives, the objectives of the removal action were to fully characterize all on-site containers and other potential areas of concern, and then remove any hazardous materials or waste off site for disposal. In addition to the containers, this would involve investigating piles of soil and debris, areas of gravel excavation, and site buildings for extent of contamination (E & E 1996). This would reduce the threat these features represented to the surrounding public and the environment. In order to reduce the threat of on-going trespassing and vandalism, including the possibility of further waste disposal by area residents, the entire perimeter of the site would be secured with a chain-link fence (E & E 1996).

A strategy was devised for implementing these objectives that involved moving all the containers to a central location where they could be staged, opened, and sampled, and the samples analyzed. This was necessary because the containers were located in several stockpiles that would have made sampling activities logistically difficult and unsafe. This central staging area needed to be large enough to accommodate all the containers, and yet secure enough to provide shelter from weather conditions. Because the site had been inactive for nearly a decade, it was realized that the location



**ecology and environment, inc.**  
 International Specialists in the Environment  
 Seattle, Washington

**YOUNGSTROM LOG HOMES**  
 Blackfoot, Idaho

Figure 2

**SITE FEATURES**

Drawn by: MRE	Date 2-4-97	TDD/Job No. AJ0601RATO	Dwg.No. AJ0601f2
------------------	----------------	---------------------------	---------------------

chosen for this staging area would require stabilization and clean-up prior to being used (E & E 1996). This was a concern partially because of reported cases of Hanta virus infections on parts of the reservation. Infection can occur through contact with dried rodent feces or urine, and can be fatal.

Additional areas of concern, including possible soil contamination, would be investigated using a backhoe and excavation techniques. Interest would lie primarily in areas where debris, junk, or stained soil was encountered. Soil samples would be collected and analyzed on site. The objective of these activities would partly be to help determine if wood treating activities occurred while the site was active.

### **3.2 Chronology of Events**

**April, 1992:** The EPA conducted an assessment of the site in order to establish if threats to the public and/or environment existed, and whether removal activities were warranted. This involved inventorying the containers, collecting samples from 16 of them, collecting soil and groundwater samples, and analyzing the samples on site for hazardous characteristics. Based on the data and observations collected, the EPA determined that a removal was justified to reduce the threat posed by the containers.

**August, 1996:** The Shoshone-Bannock Tribe, deciding they could not fund removal activities, requested assistance from the EPA. A short visit to the site was performed by the EPA and START, and the activities and conclusions of the EPA site assessment were reviewed.

**October 25, 1996:** After the Action Memorandum ([Appendix B](#)) was completed and signed, and removal activities authorized, the EPA, START, and the Emergency Response Clean-up Services (ERCS) contractor met to discuss removal logistics and objectives.

**October 29, 1996:** The START and ERCS conducted a short visit to the site in order to more conclusively determine the number and size of containers, decide on the location of a central staging area, and meet with tribal representatives to apprise them of removal objectives. Photos documenting site conditions are provided in [Appendix C](#).

**November 7, 1996:** The EPA, START, and ERCS mobilized to the site. The parking bays and lean-to attached to the north end of the office building were selected as the staging area, and ERCS began sweeping and cleaning. Due to the threat of Hanta virus infection, cleaning was conducted with respiratory protection, and the entire area was disinfected using a bleach solution. The ERCS also prepared locations adjacent to the office building for mobilization of the office trailers, and heavy equipment was used to construct roads leading to the container stockpiles. Once the staging areas were prepared, ERCS began transporting containers from various stockpiles to the staging areas, starting with the parking bays. The START began setting up the hazard categorization and sampling equipment, and initiated numbering, inventorying, and opening of the staged containers. Pollution reports completed by the EPA, which documented removal activities, are provided in [Appendix D](#).

**November 8, 1997:** After the containers were staged, inventoried, and opened, the contents were sampled and hazard categorized. Staging of the containers continued, with both the parking bays and lean-to completely filled. Office trailers were mobilized to the site, and rental office equipment was delivered.

**November 10, 1997:** The ERCS finished staging all the containers. In addition to the larger stockpiles, there were individual containers scattered throughout the site. Some of these were in such poor condition they required overpacking prior to being moved to the staging area. Due to overflow at the first staging area, a second staging area was constructed west of the parking bays adjacent to a sheet metal building. The START continued numbering, opening, inventorying, and sampling the containers, as well as analyzing the samples. Many of the 5-gallon containers consisted of pigmented sand that was non-hazardous and was probably used to color milled

lumber. Due to the large number of containers with similar contents, the number of samples were reduced accordingly. Based on the analytical data, ERCS began to consolidate and re-stage containers according to designated wastestreams.

**November 12, 1996:** Opening and inventorying the containers was completed. Based on the findings from the inventory, it was determined the contents of the containers remaining to be sampled were similar enough to allow abbreviated hazard analysis. In addition, because these remaining containers were so small, sample collection was eliminated and analysis was conducted from aliquots obtained directly from the containers. As a result of these actions, all sampling and analysis was also completed. The ERCS continued to re-stage containers according to wastestream. All but one START member demobilized from the site with all unnecessary equipment and supplies.

**November 13, 1996:** At the direction of the OSC, the ERCS excavated test pits at six locations in a search for possible soil contamination or buried waste. The START documented these activities and collected a soil sample at each location. No indication of buried waste, soil staining, or contamination was found, and the test pits were backfilled. The ERCS continued to re-stage containers according to wastestream and to arrange for off-site disposal. This included collecting samples for analysis of VOCs and metals using Toxic Characteristic Leaching Procedure (TCLP) methodology, as well as bulking smaller containers together into overpacks to facilitate transportation off site.

**November 14, 1996:** While the ERCS continued to re-stage and bulk containers, the START collected an additional seven soil samples from selected locations around the site. These included spots where, during a survey conducted earlier in the week, a metal detector had indicated buried metal, and background locations. These samples, along with the ones collected the previous day, were analyzed for pentachlorophenol by START using immunoassay test kits. The concentrations in all 14 samples were below detection limits. The START also inventoried all electrical, monitoring, and other types of debris scattered around the site. This included documenting manufacturers, model types, and serial numbers.

**November 15, 1996:** ERCS finished bulking all wastestreams except those that would later be placed directly into a roll-off box, as well as those that still required VOC and TCLP data.

**November 18, 1996:** The parking bay area was used to re-stage overpacks prior to being labeled and transported off site. This involved cleaning the area which had previously been used to stage and sample containers, and then transporting each overpack from the secondary staging area, where a majority of the bulking occurred. Empty drums discovered on site were crushed and stockpiled adjacent to the secondary staging area.

**November 19, 1996:** A roll-off box for non-hazardous solid waste was delivered to the site and the crushed drums and other wastes were placed into it. The box was completely filled and transported off site. The ERCS also finished bulking the remaining wastestreams.

**November 20, 1996:** Two roll-off boxes, one for non-hazardous solid waste and the other for hazardous waste, were delivered to the site. The wastestream consisting of the pigmented sand was placed into the non-hazardous box, while various types of investigation-derived waste such as visqueen, samples, and personal protective equipment were placed into the hazardous box. Both boxes were then properly placarded, the manifests signed, and the boxes transported off site. The START and ERCS began labeling the overpacks according to wastestream.

**November 21, 1996:** A tractor trailer truck arrived at the site and ERCS began to load the overpacks onto it according to wastestream. The START finished labeling the remainder of the overpacks prior to being loaded, as well as documenting activities. All remaining wastestreams were loaded onto the truck and secured,

and the truck was properly placarded. Once the manifests were completed and signed, the truck departed the site. The OSC, START, and ERCS began to demobilize equipment and supplies.

**November 22, 1996:** The office trailers and remaining heavy equipment were demobilized and the OSC, START, and ERCS departed the site.

### **3.3 Drums and Containers**

Removal activities addressing the drums and other containers began shortly upon mobilization to the site. The ERCS began constructing staging areas for the containers in the parking bays and lean-to adjacent to the office building. This location was chosen because it was close to the property entrance, had a concrete floor, and was relatively sheltered from the weather. Regardless, prior to staging containers and assembling work areas, the area still required cleaning and sweeping because of the possibility of Hanta virus contact.

The ERCS also began using a bulldozer to build roads leading to the container stockpiles. This process consisted of simply scraping and leveling the top layer of soil and vegetation in order to make access and transport easier. The same thing was done to the area in front of the property entrance and around the office building.

Once the parking bays and lean-to were sufficiently cleaned, visqueen was laid down and the START began unloading equipment and building a work station for hazard categorization (hazcatting) activities. This station was at the south end of the parking bays, and visqueen was spread through the remainder of the area. The ERCS began loading 5-gallon containers from one of the stockpiles onto a pick-up truck and transporting them to the parking bays. There they were unloaded and re-staged onto the visqueen by hand. Once the parking bay was filled, visqueen was spread onto the ground under the lean-to, and 5-gallon containers were staged there.

The START began numbering the containers as they were staged, and an inventory was started that recorded the container number, size, integrity, and any markings or labeling that could be found ([Appendix E](#)). Once a sufficient number of containers had been staged, the START began to open them in Level C protection. Most of these 5-gallon containers had lids with metal tabs and, as they were opened, the volume inside each container was recorded.

When they re-staged the containers, the ERCS concentrated on one stockpile at a time, and containers of various sizes were segregated into certain locations within the staging area. As the lean-to filled with 5-gallon containers, additional 1-gallon and smaller containers were staged immediately adjacent to the east, while 55-gallon containers were staged immediately adjacent on the west side of the lean-to. Once this area had been filled, a second staging area was constructed to the west of the office building in front of the metal pole barn. This again involved bulldozing and leveling the area, and spreading visqueen on the ground.

The START hazcatted samples after they were collected, and used this data to place containers into a wastestream ([Appendix F](#)). The ERCS then began to re-stage containers according to the wastestreams. This was done primarily at the second staging area, but several pallets of 1-gallon containers with paint waste were also segregated. As more sampling and hazcatting was conducted, more data was obtained and it became easier to determine which wastestream a container belonged in. This eventually resulted in reduced sampling because, in some cases, the wastestream could be determined simply by looking at the contents.

While the containers were segregated into wastestreams, the ERCS began to bulk the contents into overpacks. In some cases this meant placing several 5-gallon containers into 55-gallon or 85-gallon overpacks, while for other wastestreams, the contents of the original container were emptied into the overpack and the container was crushed and discarded.

Once all the containers had been sampled or checked, and the samples hazcatted, the ERCS completed bulking and re-staging containers until they were all overpacked and ready for off-site disposal.

### **3.4 Investigation of Soil Contamination**

A backhoe was used to excavate six test pits in order to investigate the possibility of buried wastes and/or soil contamination. The locations of the test pits were determined based on surface piles of debris, staining of soil, or allegations of suspicious activities made by tribal representatives. Locations of the test pits are presented in [Figure 3](#).

[Test pit 1](#) was located at the southern end of the site and was excavated in the midst of a pile of wood and metal debris, and stained soil. Allegations from several tribal representatives indicated that Mr. Youngstrom broke apart equipment here, including electrical transformers. The resultant waste was burned, buried in layers, and covered with soil, and some of the debris visible on the surface of the pile did appear to be charred. Excavation to approximately five feet below ground surface (bgs) did not reveal any buried waste, and no readings were obtained using a photoionization detector (PID). The START collected soil samples [96-11-0001](#) and duplicate [96-11-0002](#) from locations within the pit. The samples were collected using a standard procedure that involved placing soil into a stainless steel bowl using a stainless steel spoon. The spoon was then used to homogenize the soil and transfer it to sample jars.

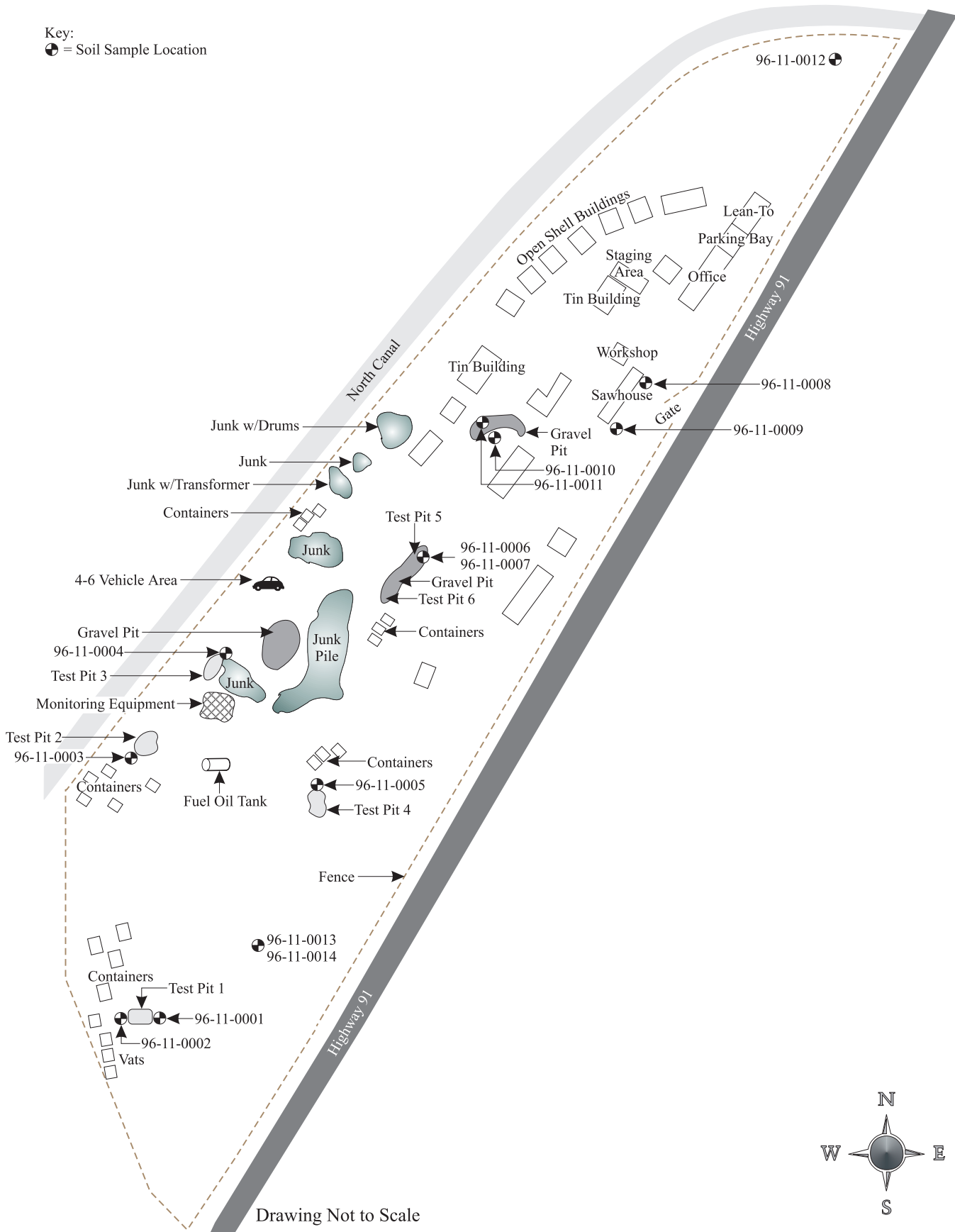
[Test pit 2](#) was excavated from a large pile of soil located approximately 150 feet north of Test pit 1. This pile also included pieces of wood and sawdust. Again, no visible signs of contamination or readings on the PID were observed. The START collected soil sample [96-11-0003](#) from a composite of 2-3 locations within the pit.

The location of [Test pit 3](#) was adjacent to a large wood debris pile and a stockpile of abandoned, non-functioning electrical and radiological monitoring equipment. There were also small amounts of other junk in this area, such as several car batteries and small tubes of paint. There was also a small gravel pit located adjacent to the debris pile. The ERCS excavated the Test pit 3 to a depth of approximately five feet bgs, and again no visible signs of contamination and no readings on the PID were observed. Soil sample [96-11-0004](#) was collected by the START from 3-4 locations within the pit.

[Test pit 4](#) was located at a second pile of soil which was similar to Test pit 2, and was excavated to an approximate depth of four feet bgs. The location of Test pit 4 was approximately 150 feet east of Test pit 3, and the contents consisted of a large amount of sawdust mixed with sandy soil. No readings were obtained from the PID. The START collected soil sample [96-11-0005](#) from a composite of two locations within the pile.



Key:  
 ● = Soil Sample Location



Drawing Not to Scale

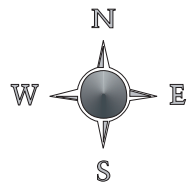


Figure 3

SAMPLE LOCATIONS

Drawn by: MRE	Date 2-4-97	TDD/Job No. AJ0601RATO	Dwg.No. AJ0601f3
------------------	----------------	---------------------------	---------------------



**ecology and environment, inc.**

International Specialists in the Environment  
 Seattle, Washington

YOUNGSTROM LOG HOMES  
 Blackfoot, Idaho



Test pits 5 and 6 were excavated from the north and south ends, respectively, of the rectangular trench located just south of the buildings. From the amount of gravel in the bottom, this trench had apparently been a gravel pit; however, lumber along its edges seemed to indicate that it may have also been used as a drip pad during wood treatment operations. Both test pits were excavated to an approximate depth of 5 feet bgs, during which no stained soil, buried waste, or readings on the PID were observed. The START collected soil samples 96-11-0006 and 96-11-0007 from two locations in Test pit 5.

The START collected seven additional soil samples at other locations, also selected because of possible soil contamination or allegations. Soil samples 96-11-0008 and 96-11-0009 were collected from the northeast and southeast corners, respectively, of the sawhouse located just south of the office building. A large amount of sawdust was deposited here when the site was active, and tribal representatives alleged that Mr. Youngstrom performed wood treating operations along this side of the building. The START pushed aside approximately one foot of sawdust and then used a stainless steel spoon to dig to a depth of approximately six inches. Soil from this depth was then transferred into a stainless steel bowl, homogenized, and placed into the sample jar.

Soil sample 96-11-0010 was collected from a small area of stained soil and no vegetation adjacent to a low area in the middle of the site. The sample was collected using the previously described procedures from an approximate depth of 12 inches. Soil sample 96-11-0011 was then collected in the low area itself, after pushing aside approximately 12 inches of sawdust. This low area appears to have been excavated, possibly for gravel quarrying. However, there is a small trench leading from an adjacent building into the low area which may indicate that the location was used for the disposal of materials.

Background soil sample 96-11-0012 was collected at the extreme northern end of the site in an apparently undisturbed location, and in the same manner as the previous samples. Next, soil samples 96-11-0013 and duplicate 96-11-0014 were collected at the southern end of the site, along the eastern fence line adjacent to the cigarette shop. The sample was collected at approximately 10 inches bgs using the same sampling procedures. A previously conducted survey with a metal detector had indicated that there was some type of buried metal in this area.

All 14 samples were analyzed in the field for pentachlorophenol (PCP) using immunoassay test kits. None of the sample results exceeded the method detection limit of 0.1 mg/kg. Information on the test kits and analytical results is provided in [Appendix G](#).

Based on the results of the sample analyses, the OSC decided that further investigation of these areas was not warranted.

### **3.5 Other Wastes**

Other potential sources of contamination were also addressed during the removal action. Four oxygen-generating canisters were discovered, overpacked, and staged with the containers as a separate wastestream. The car batteries were re-staged and eventually recycled by a local business. Several vats and open tanks located at the southwest corner of the property were visually investigated. These were allegedly used by Mr. Youngstrom for wood treating purposes and their contents were disposed of onto the ground at the south end of the site. Upon inspection, the vats were empty and in sound condition, and there was no visual staining of the ground around them.

In addition, the START made a complete inventory of the electrical and radiological monitoring equipment present on site. Information was taken from serial plates and covers, and consisted of the following:

- ℓ Victoreen Instrument Company, Cleveland, Ohio  
Logarithmic Count Rate Meter, Model 727
- ℓ Jordan Electronics, Alhambra, California  
Model AGB 500-SR, Serial # 80C
- ℓ Atomic Instrument Company, Cambridge, Massachusetts  
Counting Rate Monitor
- ℓ John Fluke Mfg. Co., Inc., Seattle, Washington  
High Voltage DC Supply, Model 410A, Serial #134  
Property of U.S. Atomic Energy Commission
- ℓ Leeds Northrup, Philadelphia, Pennsylvania  
Synchronous Motor LIN# 17-2-0-30, 115 volts, 1 phase, 60 cycles, 1800 rpm  
Motor manufactured by General Electric, Schenectady, New York
- ℓ Cannon Electric Co., Los Angeles, California
- ℓ Josam Mfg. Co., Michigan City, Indiana  
HydroPneumatic Action Absorbotron Shock Absorber
- ℓ Foxboro Company, Foxboro, Massachusetts  
Temperature Transmitter, Type 12A, Serial # 875086
- ℓ Consolidated Electrodynamics Corp., Pasadena, California
- ℓ Natural Lighting Corp., Burbank, California  
Colortron Superior Model Graphic Arts Converter, Serial # CSU93A-6E
- ℓ Allis-Chalmers, Milwaukee, Wisconsin  
5/8 % JFR Voltage Regulator, Serial # 9-0110-00162-273
- ℓ Square D Company, Los Angeles, California  
Voltage Control Circuits
- ℓ Lincoln Electric Company, Cleveland, Ohio  
Shield Arc Welder Type SAE 300, 40 volts, 300 amps, Serial # A10-0398
- ℓ Westinghouse Corporation  
Life-line Starter, Class 11-200N, Type N, Size 0
- ℓ General Electric Co., Schenectady, New York  
Single Phase, Additive Polarity Electrical Transformer #6968876

### **3.6 Final Waste Disposition**

Once all potential sources and areas of contamination had been investigated and addressed, arrangements were made for the off-site disposal of the wastestreams. This included investigation-derived

waste such as spent protective clothing, visqueen, and hazcat waste. [Appendix H](#) contains copies of the Uniform Hazardous Waste Manifests. The various wastestreams and volumes, as well as the disposal facility they were transported to are:

Envirosafe Services of Idaho, Inc.  
Grandview, Idaho

Sodium Hydroxide, solid, (1) 55-gallon drum, 200 pounds  
Hazardous waste, liquid, n.o.s. (Oil), D008, (10) 55-gallon drums, 550 gallons  
Asbestos, (1) 55-gallon drum, 500 pounds  
Non-regulated grease, (3) 55-gallon drums and (2) 85-gallon overpacks, 200 gallons  
Waste Environmentally hazardous substances, solid, n.o.s. (D008), 35 cubic yards  
Non-regulated sand, 22,000 pounds

Aptus Rollins OPC  
Aragonite, Utah

Waste paint-related materials, D001, D007, D008, F002, F003, (2) 55-gallon drums, 300 pounds  
Waste paint-related materials, D001, D006, D007, D008, F002, F003, (43) 55-gallon drums, 13,500 pounds  
Tars, Liquid, D001, (19) 55-gallons drums and (5) 85-gallon overpacks, 8,400 pounds  
Potassium peroxide, D003, D005, (4) 5-gallon lab packs, 6 pounds

#### 4.0 COST SUMMARY

The costs required to accomplish the activities undertaken during the removal action are summarized below.

	<u>Established Ceilings</u>	<u>Estimated Costs Through January 31, 1997</u>
ERCS	\$250,000	\$106,233
START	\$ 40,000	\$ 33,850
EPA	\$ 20,000	\$ 5,500
Contingency	\$ 27,000	--
Total Project Costs	\$337,000	\$145,583

#### 5.0 CONCLUSIONS

The EPA conducted a removal action at the Youngstrom Log Home site in order to address unsecured containers with unknown contents. The removal action included sampling and categorizing the container contents, identifying wastestreams, bulking the contents according to wastestream, and removing the waste off site for proper disposal. Over 1,000 containers of various sizes were addressed in this manner, and were eventually disposed of in 10 separate wastestreams.

The removal action also addressed other potential areas of concern, including soil contamination and piles of junk and debris. Through visual examination, soil excavation, and the collection and analysis of samples, the EPA was able to determine that there were no other hazards present on site requiring immediate attention.

## REFERENCES

Ecology and Environment, Inc., (E & E), 1992, Site Assessment Final Report for Youngstrom Log Homes, Blackfoot, Idaho, Technical Assistance Team, TDD T10-9110-019. Prepared for the U.S. Environmental Protection Agency, Superfund Response and Investigations Section, Region X, Seattle, Washington.

\_\_\_\_\_, 1996, Quality Assurance Sampling Plan for Youngstrom Log Homes, Blackfoot, Idaho, Superfund Technical Assessment and Response Team, TDD 96-10-0006. Prepared for the U.S. Environmental Protection Agency, Environmental Clean-up Office, Region 10, Seattle, Washington.

**APPENDIX A**  
**U.S. EPA REMOVAL SITE ASSESSMENT REPORT**

September 22, 1992

Chris D. Field  
U.S. Environmental Protection Agency  
1200 Sixth Avenue, HW-113  
Seattle, WA 98101

Ref: TDD T10-9110-019

Dear Chris:

Enclosed please find a copy of the site assessment report and the Potential Hazardous Waste Identification form for the Youngstrom Log Homes site in Blackfoot, Idaho. Field work was conducted from April 7, 1992 to April 9, 1992. During the assessment TAT noted the presence of approximately 100 containers ranging in size from one to 55 gallons. Most of these containers are arranged in piles and are in poor condition from weathering. Leakage and/or spillage onto the ground was noted in several places. Several large piles of wood and metal debris, as well as scattered batteries, electrical transformers, and military supplies, were also noted.

Sixteen samples were taken from containers of varying sizes. Based on the results of field screening tests, seven of the samples were submitted for laboratory analysis. Results revealed mostly BNAs and heavy metals, including 4,800 mg/kg of 2-methylnaphthalene and 345,000 mg/kg of zinc. In addition, nine soil samples and one groundwater sample were also collected for laboratory analysis. The soil samples were collected primarily from around leaking containers, while the groundwater sample was collected from an on-site well. Soil sample results revealed a wide array of contaminants, such as 179 mg/kg of lead, 14,000 mg/kg of pentachlorophenol, and an estimated 95 µg/kg of beta-BHC. Analysis of groundwater samples revealed two heavy metals, lead and zinc, both at concentrations below primary and secondary MCLs.

Based on site conditions and the sample analysis results the primary threats the site poses are to soil contamination and direct contact with on-site containers and soil. It is recommended that the site warrants further consideration for a removal action to relieve these threats, possibly including overpacking the weathered drums and the excavation of contaminated soils. Both soil and containers could be placed inside one of the on-site buildings for temporary storage until off-site removal and disposal, and cost responsibility issues can be resolved.

Sincerely,

William L. Carberry  
Technical Assistance Team Leader

JTK/thl

Enclosure

Ecology and Environment, Inc. - Technical Assistance Team  
**Document Circulation Request**

TO: William Carberry, TATL, E & E, Seattle

FROM: \_\_\_\_\_, OSC

SUBJ: **Youngstrom Log Homes Site Assessment Report**

REF: T10-9110-019

Please mail copies of the above-noted report to the following parties:

<u>Name</u>	<u>Address</u>	<u>Date Sent (TAT)</u>
-------------	----------------	------------------------

---

OSC

**TECHNICAL ASSISTANCE TEAM  
SITE ASSESSMENT  
FINAL REPORT FOR:**

**YOUNGSTROM LOG HOMES  
BLACKFOOT, IDAHO**

**TDD T10-9110-019**

**REPORT PREPARED BY: ECOLOGY AND ENVIRONMENT, INC.**

**PROJECT MANAGER: JERYL T. KOLB  
DATE: SEPTEMBER, 1992**

**SUBMITTED TO CHRIS D. FIELD, DEPUTY PROJECT OFFICER  
SUPERFUND RESPONSE AND INVESTIGATIONS SECTION  
U.S. ENVIRONMENTAL PROTECTION AGENCY  
REGION X  
SEATTLE, WASHINGTON**



## **ABSTRACT**

The Youngstrom Log Homes site is an abandoned sawmill and fabricated log home construction facility located within the Fort Hall Indian Reservation near Blackfoot, Idaho. While in operation, large amounts of scrap material were accepted for disposal on the property. This material varied from scrap wood and metal to car batteries and electrical transformers. Approximately 500 containers ranging in size from one to 55-gallons were also accepted for storage at the site.

At the request of the U.S. Environmental Protection Agency, Ecology and Environment, Inc. Technical Assistance Team (TAT) conducted site assessment activities at the site on April 7-8, 1992. The assessment included written and photodocumentation of site conditions, including an inventory of the containers.

TAT also collected samples from sixteen of the containers. These samples were tested in the field and based on results, seven were sent to a commercial laboratory for further analysis. Those results revealed a wide range of concentrations of volatile organic compounds, base/neutral/acid extractable organic compounds (BNAs), pesticides, and heavy metals. Concentrations ranged from 0.28 mg/kg of lead to 41,000 mg/L of total xylenes.

TAT also collected nine soil samples and two groundwater samples, including one field blank. Elevated levels of BNAs and heavy metals were detected in the soil samples, with concentrations ranging from 14,000 mg/kg of pentachlorophenol to 0.04 mg/kg of mercury. The groundwater samples contained detectable concentrations of lead and zinc, both of which were below primary and secondary Maximum Contaminant Levels.

Based on site conditions and the results from sample analysis, the threats the site may pose are to soil contamination and direct contact with the containers and contaminated soil.

## TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
ABSTRACT	
1.0 INTRODUCTION .....	1
2.0 SITE CONDITIONS AND BACKGROUND .....	1
2.1 Site Description .....	1
2.1.1 Site Evaluation .....	1
2.1.2 Site Location .....	2
2.1.3 Site Characteristics .....	2
2.1.4 Release Threat Posed By Site .....	2
2.1.5 NPL Status .....	5
2.2 Actions to Date .....	5
2.2.1 Previous Actions and Investigations .....	5
2.2.2 Current Action .....	5
2.2.2.1 Sampling Rationale .....	6
2.2.2.2 Sampling Results .....	6
3.0 PUBLIC HEALTH AND ENVIRONMENTAL THREATS .....	11
3.1 Threats to Public Health and Welfare .....	11
3.2 Threats to the Environment .....	11
4.0 ENDANGERMENT DETERMINATION .....	14
5.0 ACTION ALTERNATIVES .....	14
6.0 CONCLUSIONS .....	14
REFERENCES	
APPENDIX A: PHOTOGRAPHIC DOCUMENTATION	
APPENDIX B: DATA QUALITY ASSURANCE REVIEW AND ANALYTICAL SUMMARY SHEETS	
APPENDIX C: ON-SITE CONTAINER AND JUNK PILE INVENTORY	

## **LIST OF FIGURES**

<u>Figures</u>	<u>Page</u>
1 Site Location Map	3
2 Site Map	4
3 Container Sample Locations	7
4 Soil and Groundwater Sample Locations	9

## **LIST OF TABLES**

<u>Tables</u>	<u>Page</u>
1 Container Sample Field Screening Results	8
2 Container Sample Analytical Results	10
3 Soil Sample Analytical Results	12
4 Groundwater Sample Analytical Results	13

## **SITE ASSESSMENT REPORT FOR**

Youngstrom Log Homes  
Blackfoot, Idaho  
T10-9110-019

### **Site Name/Address :**

Youngstrom Log Homes  
P.O. Box 356  
Blackfoot, ID 83221

### **Investigation Participants :**

Jeryl Kolb, TAT-Project Manager  
Jill Roberts, TAT  
Charlie Granda, TAT  
Mark Woodke, TAT  
Ecology and Environment, Inc., Seattle, Washington  
206/624-9537

### **Dates of Site Assessment :**

April 7-9, 1992

## **1.0 INTRODUCTION**

The Environmental Protection Agency (EPA) Region X Superfund Response and Investigations Section (SRIS) tasked the Ecology and Environment, Inc., (E & E) Region 10 Technical Assistance Team (TAT) to conduct an assessment at the Youngstrom Log Homes (Youngstrom) site in Blackfoot, Idaho.

The Youngstrom site was brought to the EPA's attention during a Resource Conservation and Recovery Act (RCRA) compliance inspection conducted by EPA officials from the Idaho Operations Office in 1991. The inspection noted that the facility was abandoned and contained numerous stockpiled 1-, 5-, and 55-gallon size containers, most of which were full or partially full and in poor condition.

The EPA tasked TAT to conduct a site assessment to determine the contents of the containers, evaluate the threat they pose to public health and the environment, identify migration targets, and determine the need for a removal action at the site.

## 2.0 SITE CONDITIONS AND BACKGROUND

### 2.1 Site Description

#### 2.1.1 Site Evaluation

The Youngstrom Log Homes site is a former sawmill and fabricated log home construction facility. The property is located on the Fort Hall Indian Reservation and was leased by Lewis Youngstrom from the Shoshone-Bannock tribe. The lease was apparently revoked in 1987 and the property abandoned.

The tribal representative, Roger Turner, met with TAT prior to the assessment. He stated that the entire site is fenced and that the gate is locked. However, the fence is a split log type, and with the presence of abandoned machinery on site, trespassing, vandalism, and robbery are problems. Turner gave TAT keys to the gate and notified local law enforcement officials that TAT had permission to be on the property.

#### 2.1.2 Site Location

The Youngstrom site lies completely within the Fort Hall Indian Reservation, approximately 6 miles south of Blackfoot, Bingham County, Idaho (Figure 1). The site is located on the north side of State Highway 91 approximately 1/2 mile southwest of Interstate 15, within section 20, Township 3 South, Range 35 East.

The surrounding area is predominantly agricultural in use, with scattered homes and businesses. The closest residence is approximately 150 yards northeast of the site. The North Canal, an agricultural irrigation canal, forms the northern and eastern boundaries of the site, Highway 91 the southern boundary, and farm fields the western boundary.

#### 2.1.3 Site Characteristics

The Youngstrom site was leased from the Shoshone-Bannock Tribes by Lewis Youngstrom, who used the property to operate his fabricated log home construction business. It is not known what date operations were started, but the lease was revoked by the tribe in 1987, and Youngstrom abandoned the site at that time. Youngstrom also operated a sawmill and accepted liquid and solid waste from third parties, but allegedly did not conduct wood treatment operations on the site.

The site contains approximately 20 buildings, numerous junk piles, stockpiles of containers, abandoned vehicles, and two shallow trenches or pits (Figure 2). The majority of the buildings contain sawmill machinery, tools, supplies, or materials, however several of the smaller open shell buildings are empty.

The containers range in size from 1- to 55-gallons. Most are either full or partially

full and are in poor condition. Most do not have identifying labels on them. Areas of spillage or leakage are apparent around several of the stockpiles.

#### **2.1.4 Release Threat Posed By Site**

There are several targets threatened by a potential release from this site. Soil contamination is possible due to leaking drums and other containers present. Areas of spillage or leakage have been observed. In addition, the junk piles do contain car batteries and electrical transformers that may also be leaking.

figure 1

figure 2



Groundwater contamination is a possibility if soil contamination is widespread. Water table conditions in the vicinity of the site are fairly shallow, however agricultural and drinking water wells utilize water from deeper artesian aquifers confined by an intervening clay layer (USDA 1977, USGS 1984).

While the site is not situated in a heavily populated area, direct contact between contaminants and the public is possible. The area is not properly fenced and is attractive to vandals and scavengers due to the presence of scrap metal, machinery, and other material. Tribal representatives told TAT they often receive calls concerning trespassing or looting.

Surface water does not appear to be seriously threatened. The North Canal is separated from the site by a 2- to 4-foot berm, which would effectively preventing any overland flow of contaminants.

Similarly, air contamination is not a major threat. Vegetation covers most of the site, helping to hold down possibly contaminated soils from being blown off site.

### **2.1.5 NPL Status**

The Youngstrom site is not listed on the NPL and no Hazard Ranking System score has been generated.

## **2.2 Actions to Date**

### **2.2.1 Previous Actions and Investigations**

On April 13, 1990 Roger Turner and Gary McRae of the Shoshone-Bannock Tribe conducted a walk-through assessment of the site. According to Turner and McRae, the tribe conducted a comprehensive chemical inventory of the containers found at the site in May 1990. No analytical samples were collected.

Michael Silverman and Mark Maserik of EPA, along with Constance Albright representing the Shoshone-Bannock Tribes, conducted a RCRA Compliance Inspection on April 2, 1991. This inspection also consisted of a walk-through assessment, along with photo documentation. No analytical samples were collected.

An effort was made by EPA to identify the responsible party and to ascertain from them additional information concerning site operations and waste disposal. As Lewis Youngstrom had passed away since the site was abandoned, his son Lynn Youngstrom was contacted. Youngstrom knew very little about site operations or the types and quantities of waste brought to the site.

## 2.2.2 Current Action

In conducting a site assessment of the Youngstrom site, TAT conducted photo and written documentation of current site conditions prior to sampling activities. A walk-through of the site was made, noting the numbers, types, and condition of the containers, the contents of the junk piles and buildings, and the location of the on-site well. Potential sampling locations were also noted. Photodocumentation of the site and of the TAT sampling effort is presented in Appendix A.

### 2.2.2.1 Sampling Rationale

The TAT collected 16 samples from containers located on site on April 7, 1992 (Figure 3). The containers varied in size from 55-gallon to 5-gallon. Based on the results of the field screening kits (Sensidyne Hazard Categorization and Dextsil Chlor-n-Oil) (Table 1), the number of samples submitted for chemical analysis was reduced to 7. The samples were analyzed for parameters based on the field screening results, and included volatile organic compounds (VOCs), base/neutral/acid extractable organic compounds (BNAs), and polychlorinated biphenyls (PCBs).

Containers from each of the stockpiles were chosen for sampling based on the amount of sample material available, the structural integrity of the container (or lack thereof), and if the sample material visibly differed from that in other containers.

TAT collected 8 on-site soil samples on April 8, 1992 (Figure 4). One off-site background soil sample was collected on April 9, 1992. The locations of the samples collected were based around the container stockpiles and the junk piles. Areas specifically targeted were the ground beneath containers with poor integrity, spilled transformers, battery piles, and areas of stained soil and/or no vegetation.

All soil samples were analyzed for VOCs, BNAs, and priority pollutant metals. Based on the locations they were collected from, 3 of the soil samples were field screened for PCBs using Ensys immuno-assay test kits and based on those results, two of the samples were also analyzed for PCBs by the designated laboratory.

The TAT also collected 1 groundwater sample from the on-site well on April 8, 1992. Because the well is equipped with a submersible pump, TAT was not able to determine depth to groundwater or the depth of the screened interval. TAT sampled from the well by restoring electrical power to the well pump through the use of a generator. Due to the unknown depth of the well, purging was conducted for 1/2 hour. A field blank of distilled water was also collected. Both samples were analyzed for VOCs, BNAs, PCBs, and priority pollutant metals.

#### 2.2.2.2 Sampling Results

Container sample T2030220 contained the largest number of contaminants, in part because both the solid and liquid phases of the sample were analyzed (Table 2). The solid phase of the sample displayed the highest concentrations of BNAs found in any container sample, with 4,800 mg/kg of 2-methylnaphthalene. T2030233 contained the highest concentrations of volatile organics and pesticides, with 41,000 mg/L of total xylenes and 1,700 µg/kg of endrin. Sample T2030231 contained

figure 3

table 1

figure 4

table 2

345,000 mg/kg of zinc, the highest concentration of metals in any of the samples.

For soil sample analysis, T2030239 contained the greatest number of contaminants, consisting of primarily BNAs and heavy metals (Table 3). Sample T2030238 contained the highest concentration of volatile and BNA organics, with 620  $\mu\text{g/kg}$  of 2-methyl-2-pentanone and 14,000 mg/kg of pentachlorophenol, respectively. Sample T2030236 contained the highest concentrations of pesticides and heavy metals, with an estimated 95  $\mu\text{g/kg}$  of beta-BHC, and 179 mg/kg of lead.

Groundwater sample T2030246 contained only two contaminants, lead and zinc. Zinc was the higher concentration with 929  $\mu\text{g/L}$  (Table 4). Despite the elevated concentrations, these results are below the primary and secondary Maximum Contamination Levels (40 CFR 141.11, 40 CFR 143.3). Sample T2030247 was a field blank collected from deionized water and contained 1.5  $\mu\text{g/L}$  of lead.

Samples were collected, handled, and analyzed, and results were reported per the TAT Sampling Plan/Quality Assurance Project Plan (Kolb 1992). A quality assurance review of the analytical results performed by E & E TAT chemists is presented in Appendix B. In general, the data were judged to be acceptable, except where flagged with qualifiers which modify the usefulness of individual values.

### 3.0 PUBLIC HEALTH AND ENVIRONMENTAL THREATS

#### 3.1 Threats to Public Health and Welfare

The most likely threat to the surrounding public appears to be from direct contact with wastes and/or contaminated soil at the site. The site is not adequately secured, and tribal representatives have indicated that trespassing is a problem. Many of the containers stored on site are either open or of poor structural integrity. Contact with hazardous materials could also potentially occur through the wind-borne transport of contaminated soil particles. The area is windy and open, however few unvegetated areas were observed by TAT during the assessment.

TAT sampling results indicate that the containers being stored on site, as well as on site soils, contain elevated levels of contaminants, primarily BNAs and heavy metals.

#### 3.2 Threats to the Environment

The most likely environmental threat that the Youngstrom site poses is to soil around and beneath the containers stored on site. During the assessment many of the containers were observed to be in poor condition and some were also open or otherwise exposed. Some spillage or leakage was observed, and TAT soil samples collected from stained soil and other areas around the containers indicate elevated levels of various contaminants, especially heavy metals.



table 3

table 4

The State of Idaho does not currently have numerical clean-up standards for soil or groundwater. Comparison to background levels is therefore often used to determine elevated levels of contaminants.

#### 4.0 ENDANGERMENT DETERMINATION

The Youngstrom site does not appear to pose an imminent threat either to public health and welfare, or to the environment. Present site conditions do warrant concern, however. Many of the containers on site are exposed to the elements and have poor structural integrity. Leaking of contents onto the ground was observed by TAT. Soil and groundwater contamination is present, however geological conditions in the area would seem to indicate that the threat to groundwater is minimal. The upper aquifer is not used for drinking or irrigation purposes, and the lower aquifer is confined by a thick clay layer. Similarly, the threat to surface water is small due to the higher terrain located between the site and the closest surface water body, in this case the North Canal.

The primary threats the site poses then are to soil contamination from leaking containers and direct contact with materials stored in containers or with contaminated soil.

#### 5.0 ACTION ALTERNATIVES

TAT recommends that the on-site containers be transferred to overpacks and then placed inside one of the secure buildings that exist on site for temporary storage. During the assessment TAT noted several buildings with concrete floors, intact walls and roofs, and no windows. By placing the containers inside the building and securing it, imminent threats to any trespassers and to further soil contamination would be solved. Contaminated soil would be excavated from beneath and around the containers and also placed inside one of the buildings. Adequate fencing to prevent trespassing should also be placed around areas where hazards have been confined.

Containers and soil could be temporarily stored in on-site buildings, thereby mitigating imminent threats posed by the site while EPA and the responsible parties negotiate dispose of the wastes.

#### 6.0 CONCLUSIONS

The Youngstrom Log Homes site is an abandoned prefabricated log home construction facility in Blackfoot, Idaho. While in operation the site owner also accepted large amounts of scrap and waste for disposal on the property. This includes approximately 500 containers ranging in size from 1- to 55-gallons. Most of these containers are in poor condition, with few identifying markings. Areas of spillage or leakage are apparent.

During site assessment activities TAT collected samples from 16 containers. These

samples were tested in the field and, based on the results, were reduced to seven composites which were submitted to a commercial laboratory. TAT also collected nine soil samples, including one off- site background sample, and one groundwater sample. Most of the soil samples were collected from soil around and beneath containers. The groundwater sample was collected from an on-site well.

Sample results revealed elevated levels of contaminants in both the container and soil samples. Most of the contaminants were BNAs or heavy metals. Based on site conditions and sample analysis results, the site may pose a direct contact threat. This is based on the accessibility of the site, past incidences of vandalism, the condition of the containers, and the levels of contaminants detected in soil and container samples.

## REFERENCES

- Kolb, Jeryl, 1992, Technical Assistance Team Sampling Plan For: Youngstrom Log Homes Site, Ecology and Environment, Inc., Seattle, WA.
- U.S. Dept. of Agriculture, 1977, Soil Survey of Fort Hall Area, Idaho Parts of Bannock, Bingham, Caribou, and Power Counties, Soil Conservation Service in cooperation with University of Idaho College of Agriculture.
- U.S. Geological Survey, 1984, Hydrogeology of Eastern Michaud Flats, Fort Hall Indian Reservation, Idaho, Water Resources Investigations Report 84-4201, prepared in cooperation with the Shoshone-Bannock Tribes, Fort Hall Indian Reservation.
- 40 CFR 141.11, National Primary Drinking Water Regulations, Maximum contaminant levels for inorganic chemicals.
- 40 CFR 143.3, National Secondary Drinking Water Regulations, Secondary maximum contaminant levels.

## APPENDIX A

### PHOTOGRAPHIC DOCUMENTATION

## PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial No.: 646171  
Lens Type: 35 mm

TDD No.: T10-9110-019  
Site Name: Youngstrom Log Homes

Photo No.	Date	Time	Taken By	Description
1	4/9/92	0830	Kolb	Office building with company sign.
2	4/7/92	1115	Kolb	Several on-site buildings.
3	4/8/92	1045	Kolb	Junk pile with open transformer visible in the middle on the photo.
4	4/7/92	1110	Kolb	Abandoned vehicles on site. Container stockpile is to the right.
5	4/7/92	1120	Kolb	5-gallon containers. Label reads "Aluminum Heat Resisting Paint".
6	4/7/92	1120	Kolb	Another container stockpile. Several labels reads "Bitumastic Jet Set Primer".
7	4/8/92	1015	Kolb	Batteries located on large junk pile.
8	4/7/92	1050	Kolb	Container stockpile located at the far southwest corner of the site.
9	4/7/92	1450	Kolb	Collecting container sample T2030222 from 55-gallon drum.
10	4/7/92	1520	Kolb	Collecting container sample T2030227 from a 5-gallon pail.
11	4/7/92	1540	Kolb	Preparing to collect container sample T2030229.
12	4/7/92	1620	Kolb	Collecting container sample T2030233 from a 5-gallon pail.
13	4/7/92	1630	Kolb	Collecting container sample T2030234 from a 55-gallon drum of oil.
14	4/8/92	0940	Kolb	Collecting soil sample T2030236. Edge of the gravel pit is visible.
15	4/8/92	0955	Kolb	Collecting soil sample T2030237.
16	4/8/92	1030	Kolb	Collecting soil sample T2030240 from unvegetated area near oil drums.

## PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial No.: 646171

TDD No.: T10-9110-019

Lens Type: 35 mm

Site Name: Youngstrom Log Homes

Photo No.	Date	Time	Taken By	Description
17	4/8/92	1045	Kolb	Collecting soil sample T2030243 from white material emptied from transformer. Transformer lid is visible to the upper left of the pile.
18	4/8/92	1050	Kolb	Junk pile from which soil sample T2030242 was collected.
19	4/8/92	1110	Kolb	Field screening samples inside the large on-site tin building.



## APPENDIX B

### DATA QUALITY ASSURANCE REVIEW AND ANALYTICAL SUMMARY SHEETS

## APPENDIX C

### ON-SITE CONTAINER AND JUNK PILE INVENTORY

**First Container Stockpile (corresponds to samples T2030220-225)**

46 55-gallon drums (22 full or partially full)  
3 30-gallon drums (all full)  
33 5-gallon pails (all full)

**Second Container Stockpile (corresponds to samples T2030226-227)**

24 5-gallon pails (labeled "Houghton-Draw")  
33 55-gallon drums (mostly empty; some contain solidified tar)  
18 5-gallon pails (all empty)  
1 25-gallon drum (full and sealed, no markings)

**Third Container Stockpile (corresponds to samples T2030228-231)**

300 5-gallon pails (stacked on pallets, full or partially full,  
some labeled "carbo-zinc")

**Fourth Container Stockpile (corresponds to samples T2030232-233)**

74 5-gallon pails (sealed or partially open, some leakage,  
most labeled "Aluminum Heat Resisting Paint")  
~200 1-gallon cans (placed on pallets, no markings, most are  
leaking)

**First Junk Pile**

Consists of scattered wood debris, soil, numerous tires, 10-15 car batteries, 6 empty 55-gallon drums, ~100 empty 1-gallons cans, a 1000-gallon tank, and a small pile of military Geiger counters.

**Second Junk Pile**

Consists of piled soil, wood and rusty metal, tires, one open electrical transformer, and two empty 55-gallon drums.

**Third Junk Pile**

Consists of piled dirt and wood, ~ 50 empty 55-gallon drums, and rusty scrap metal.

**Fourth Junk Pile**

Consists of piled dirt and wood, 5 empty 55-gallon drums, and an electrical transformer lid.

**Fifth Junk Pile**

Consists of piled dirt and wood, 6 empty 55-gallon drums.

There are also 4-5 smaller piles consisting of wood and rusty metal, as well as scattered empty 55-gallon drums.

**APPENDIX B**  
**ACTION MEMORANDUM**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 10  
1200 Sixth Avenue  
Seattle, Washington 98101

**MEMORANDUM**

**DATE:** September 26, 1996

**SUBJECT:** Request for a Removal Action at  
Youngstrom Log homes, in Bingham County,  
Blackfoot, Idaho

**TO:** Randy M. Smith, Director,  
Environmental Cleanup Office

**FROM:** William H. Freutel,  
OSC

**THROUGH:** Leroy S. *Boiselle*, Manager  
ECL Cleanup Unit #1

Site ID#: 102T  
ERNS #:

- I. **PURPOSE:** The purpose of this action memorandum is to request and document approval of the proposed removal action for the uncontrolled waste found on the Youngstrom Log Home in Blackfoot, Idaho. The site lies completely within the Fort Hall Indian Reservation, on the north side of Highway 91, approximately one-half mile southwest of Interstate 15.
- II. **SITE CONDITIONS AND BACKGROUND:** This is a time-critical removal action.

A. **SITE DESCRIPTION:**

1. **Removal Site Evaluation**

The Youngstrom Log Homes site is a former sawmill and log home construction facility. The property was leased by Lewis Youngstrom from the Shoshone-Bannock Tribe. The lease was revoked in 1987 and the property was abandoned. Hundreds of drums and containers were abandoned on-site. Many of the drums and containers have leaked or burst open and have contaminated the surrounding soil. There are unconfirmed reports of buried wastes on site.

## **2. Physical Location and Site Characteristics**

The surrounding area is predominantly agricultural in use with some nearby homes and businesses. The closest residence is approximately 150 yards northeast of the site. The North Canal, an agricultural irrigation canal, forms the northern and eastern boundaries. The south and west sides of the site are bordered by State highway 91 and farm fields, respectively.

## **3. Site Characteristics**

The site has been abandoned since 1987. Most of the site is fenced with a 3-rail cedar fence. Trespassing has been a problem. It appears that the amount of wastes on-site has increased since EPA's 1992 assessment. The site currently contains approximately 20 buildings, numerous junk piles, more than 500 containers (1 gals., 5 gals, and 55 gals), abandoned vehicles, and two shallow trenches. Most of the containers are unlabeled, contain product, and are in poor condition.

The site is owned by the Shoshone-Bannock Indian Tribe. The former operator of the Business, Lewis Youngstrom, is deceased. EPA first assessed the site in 1992 and forwarded the results to the Shoshone-Bannock Tribe, with some recommendations for cleanup action. The Tribe has since determined that they do not have the financial ability to conduct the necessary cleanup.

## **4. Release or Threatened Release into the Environment of a Hazardous Substance, or Pollutant or Contaminant**

EPA contractors collected 16 samples from on-site containers. Contaminants detected include volatile, semi-volatile, pesticides, and metals, in containers of varied size and origin. Field-screening results indicated the presence of acids, bases and flammable materials. Uncontrolled flammable materials on site may pose a serious threat of fire and explosion. In the event of a

fire, fire fighting efforts would be greatly impeded by the unknown nature of most of the materials on-site.

Eight soil samples were collected from areas around the container stockpiles and junkpiles, targeting areas of stained soil and stressed vegetation. Sample results showed volatile, semi-volatile, heavy metal and pesticide contamination. One sample exhibited the highest hits of both volatile and BNA organics with 620 parts per billion of 2-methyl-2-pentanone and 14,000 parts per million of pentachlorophenol, respectively. Due to the numerous, unknown sources of the abandoned material, these sample results may not represent all contaminants on site. The elevated levels of pentachlorophenol indicate that wood treatment operations may have taken place on-site.

There are radio nuclide respirator cartridges, Geiger counters, and other materials that indicate that radiation may be encountered on site. Radiation screening has not been conducted. There are also unconfirmed reports of unmarked burial areas on site.

5. **NPL Status:** The site is not listed on the NPL. The site has been referred to the site assessment program for site investigation
6. **Maps and other graphic representations:** See the attached location map and site diagram.

**B. OTHER ACTIONS TO DATE:**

**1. Previous Actions:**

April 1990 - Site Evaluation conducted by Roger Turner, Shoshone-bannock Tribal representative, and Gary Morae

April 1991 - EPA RCRA Compliance Inspection by Mike Silverman and Mark Masarik.

August 1991 - EPA sent Potentially Responsible Party letter to Lewis Youngstrom (Company Owner), Jay Youngstrom, and Lynn Youngstrom (owners sons). Lewis Youngstrom is deceased. His survivors have limited knowledge of the business and reportedly limited assets.



July 1991 - Bannock-Shoshone Tribal requested assistance to Region 10 Administrator.

April 1992 - EPA conducted Removal Assessment and forwarded the findings and Removal Recommendations to Roger Turner.

**2. Current Actions:**

June 1996 - EPA was contacted by the Susan Hanson, Shoshone-Bannock Tribal representative, regarding the tribes inability to fund a cleanup action estimated by consultants at \$300,000. The Tribe requested EPA assistance in mitigating site hazards. EPA headquarters arranged an estimated \$300,000 to fund an EPA-lead Removal action.

September 1996 - EPA On-scene Coordinator did a site walk-through to determine current site conditions and evaluate the need and cost for Removal Action.

**C. STATE AND LOCAL AUTHORITIES' ROLES:**

1. **State and Local Actions to Date:** None. The site is located on Tribal land, no state or local jurisdiction.
2. **Potential for Continued State and Local Response:** None. This site is on Tribal land and the State has no authority.

**III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES:**

**A. THREATS TO PUBLIC HEALTH OR WELFARE:**

The most likely exposure pathways to the contaminants on site are via inhalation of contaminated dust or fumes and/or direct contact. Both pathways are a threat to surrounding residents and anyone accessing the site. Dogs from a nearby home were on the site during EPAs recent visit. There were clear signs of recent activity on site which could have been related to dumping or salvaging. Many of the site contaminants, including Pentachlorophenol and heavy metals, pose a health threat from primary

contact on site, as well as secondary contact with materials tracked from the site. Most of the drums and containers have not been sampled and may present other significant threats. Radiation screening has not been conducted despite the presence of radiological equipment on site. Fire and explosion hazards are also a concern due to uncontrolled flammable and incompatible materials on site. In the event of a fire, the down-wind exposure risks remain largely unknown.

**B. THREATS TO THE ENVIRONMENT:**

Although the primary threats posed by the site relate to public health, contaminated soils on site may pose a threat to shallow groundwater and the North Canal which forms the north and west border of the site.

**IV. ENDANGERMENT DETERMINATION:**

Actual or threatened release of hazardous substances from this site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

**V. PROPOSED ACTIONS AND ESTIMATED COSTS:**

**A. PROPOSED ACTIONS:**

**1. Proposed Action Description:**

The Removal action will consist of: hazard categorizing all containerized material on site. Compatible waste streams will be consolidated and profiled. Leaking containers will be consolidated or overpacked. Soil contamination will be characterized and removed. Geophysical instrumentation may be used to identify/investigate potential burial areas. Once liquid and solid wastes have been consolidated and staged, the waste streams will be profiled for disposal. Every attempt will be made to recycle uncontaminated product identified on site.

Consistent with EPA's off-site policy, potential disposal facilities will be checked for compliance status. EPA and the tribe will take steps to secure the site to prevent future dumping of hazardous materials.

**2. Contribution to remedial performance**

If the Removal Action proposed herein is approved and implemented, no further remedial action will be required.

**3. Description of alternative technologies**

EPA will make every effort to recycle products that are of value.

**4. EE/CA: N/A**

**5. Applicable or relevant and appropriate requirements (ARARS)**

Federal and State ARARs will be considered and met to the extent practicable.

**6. Project Schedule**

Response activities can begin during October 1996 and the proposed action will require approximately 30 to 45 days to completion.

## B. ESTIMATED COST

### Extramural Costs:

<u>Regional Allowance Costs:</u>	
Total Cleanup Contractor Costs	\$250,000
<u>Other Extramural Costs:</u>	
Total TAT costs	<u>\$40,000</u>
Total NCLP	
Total REAC	
Subtotal, Extramural Costs	\$290,000
Extramural Costs Contingency(10%)	<u>\$ 27,000</u>
<b>TOTAL, EXTRAMURAL COSTS</b>	<b>\$317,000</b>

### Intramural Costs:

Intramural Direct Costs	\$ 15,000
Intramural Indirect Costs	<u>\$ 5,000</u>
<b>TOTAL, INTRAMURAL COSTS</b>	<b>\$ 20,000</b>

<b><u>TOTAL REMOVAL PROJECT CEILING</u></b>	<b><u>\$337,000</u></b>
---	-------------------------

## VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN:

If the proposed action is denied or delayed the situation on site will continue to deteriorate. Leaking containers will further contaminate the surrounding soil and threaten shallow groundwater. Uncontrolled site access may continue posing known and unknown health risks to anyone entering the site. The fire and explosion hazard may increase due to continued deterioration and/or vandalism.

## VII. OUTSTANDING POLICY ISSUES: None

#### VIII. ENFORCEMENT:

According to the Shoshone-Bannock Tribal Council, the Tribal government was the entity that leased the land to Lewis Youngstrom. Under CERCLA 107, Tribal governments are not a "person", and therefore not liable for reimbursement. Therefore, there is no cost recovery planned against the Tribe. Past investigation of Lewis Youngstrom (deceased), and his survivors, indicate limited financial viability, thus no cost recovery actions are planned against them.

EPA will notify and hold liable, the Department of Energy (DOE), for all costs associated with the handling and disposal of hazardous materials originating from DOE sites.

#### IX. RECOMMENDATION:

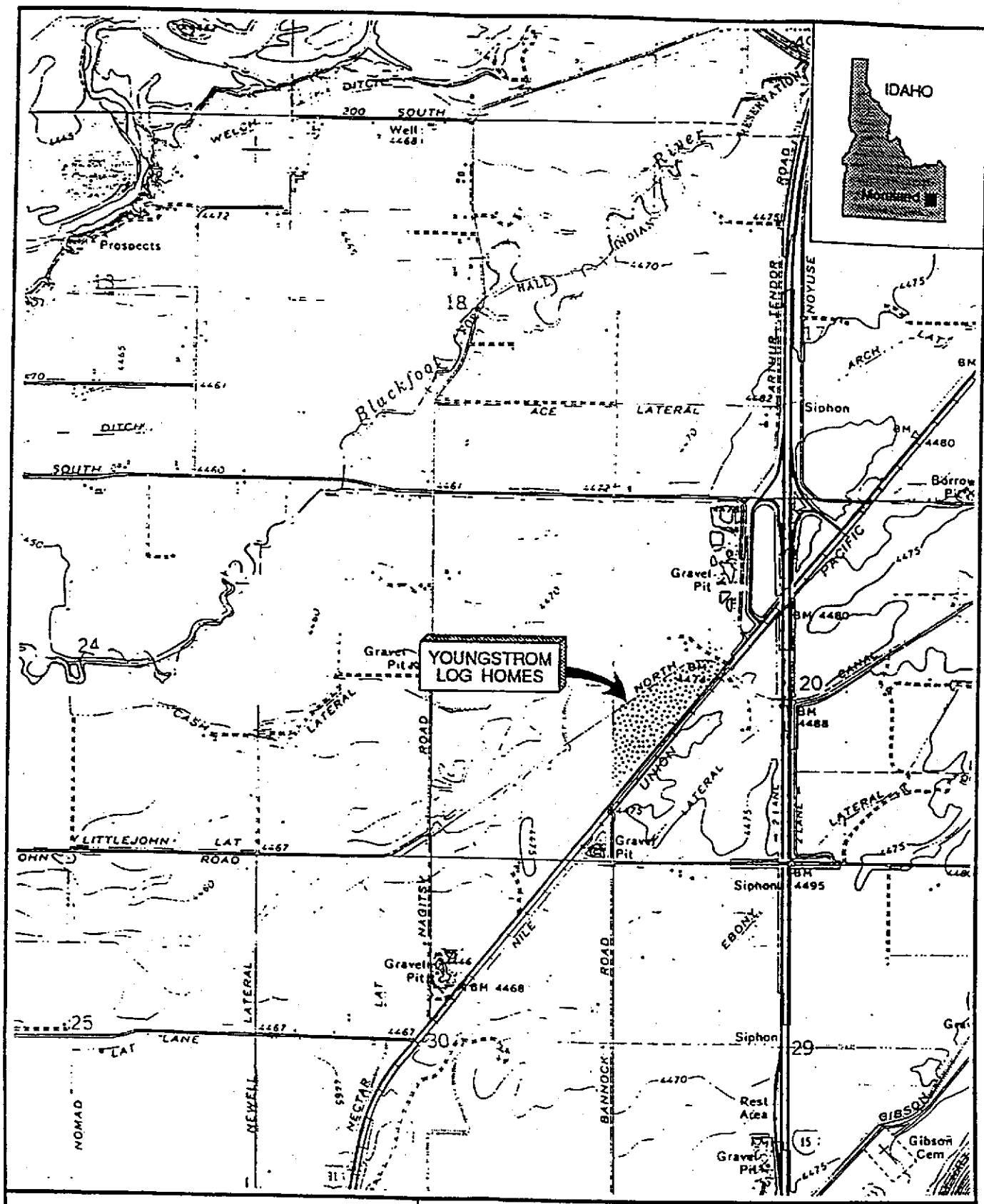
This decision document represents the selected removal action for the Youngstrom Log Homes site in Blackfoot, Idaho, developed in accordance with CERCLA as amended, and not inconsistent with the NCP. This decision is based on the administrative record for the Conditions at the site meet the NCP section 300.415(b)(2) criteria for removal and I recommend your approval of the proposed removal action. The total project ceiling if approved will be \$337,000. The entire amount will be funded by EPA headquarters.

(Approval)

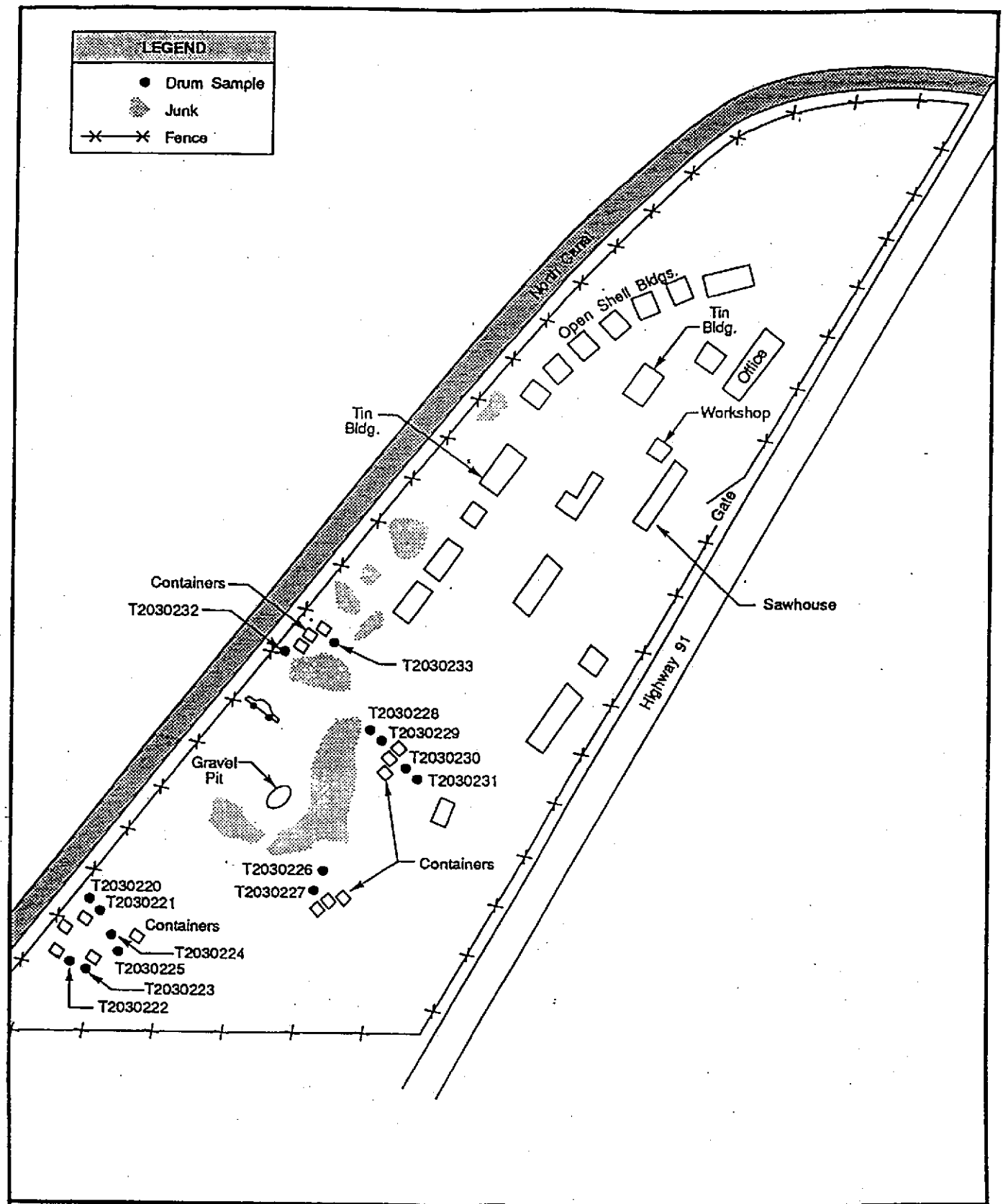
Randall F. Smith

(Disapproval)

\_\_\_\_\_



YOUNGSTROM LOG HOMES SITE  
BLACKFOOT, IDAHO



YOUNGSTROM LOG HOMES SITE  
BLACKFOOT, IDAHO

**APPENDIX C**  
**SITE PHOTOGRAPHS**



## PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial #: 645489

TDD #: 96-10-0006

Lens Type: 30-70 mm

Site Name: Youngstrom Log Homes

Photo No.	Date	Time	By	Description
1.01	10/29/96	1230	J. Kolb	View of site looking north from empty fuel tank.
1.02	10/29/96	1233	J. Kolb	Stockpile of 55-gallon drums.
1.06	10/29/96	1242	J. Kolb	55-gallon drum labeled "Steam turbine lube oil".
1.09	10/29/96	1250	J. Kolb	View of site looking northeast from atop the canal dike.
1.10	10/29/96	1250	J. Kolb	Stockpile of various-sized containers.
1.16	10/29/96	1312	J. Kolb	View of site looking south from office building towards the saw-mill building.
1.19	10/29/96	1320	J. Kolb	View of office building and business sign.
1.21	11/7/96	1015	J. Kolb	ERCS using bulldozer to scrape and level area in front of office building.
2.01	11/7/96	1515	J. Kolb	ERCS using truck to move first load of containers from south end of site to staging area in parking bays.
2.05	11/7/96	1628	J. Kolb	Staging containers on visqueen using forklift.
2.06	11/7/96	1631	J. Kolb	View of the contents of one open 5-gallon container.
2.09	11/8/96	0805	J. Kolb	View of south end of site with new roads and stockpiled containers ready for moving.
2.11	11/8/96	1130	J. Kolb	Opening, numbering, and inventorying staged containers in preparation for sampling
2.17	11/8/96	1418	J. Kolb	Numbering and opening staged containers under the lean-to.
2.18	11/8/96	1435	J. Kolb	START hazcat station at north end of parking bays.
2.19	11/8/96	1545	J. Kolb	Continuing to number and open staged containers under lean-to.
2.23	11/8/96	1715	J. Kolb	START hazcatting samples; note flame test on copper wire.
3.01	11/9/96	0900	J. Kolb	ERCS staging empty containers west of office building.
3.02	11/9/96	0933	J. Kolb	START in Level B collecting samples from containers under the lean-to.
3.08	11/9/96	1030	J. Kolb	ERCS preparing to stage 55-gallon containers at prepared area west of the lean-to.
3.12	11/9/96	1640	J. Kolb	View of remaining sampled containers under parking bay. These are one wastestream.
3.15	11/10/96	1345	J. Kolb	View of the second staging area west of the office building being used to stage sampled containers according to wastestream.

## PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial #: 645489

TDD #: 96-10-0006

Lens Type: 30-70 mm

Site Name: Youngstrom Log Homes

Photo No.	Date	Time	By	Description
3.16	11/11/96	1045	J. Kolb	View of first parking bay with smaller containers staged in front of it for sampling.
3.20	11/11/96	1517	J. Kolb	START in Level B, hazcatting contents directly from the containers.
3.22	11/11/96	1555	J. Kolb	START in Level B, hazcatting contents directly from the containers.
4.09	11/12/96	1103	J. Kolb	START hazcatting the contents of the remaining containers directly from the containers at two separate stations.
4.10	11/12/96	1305	J. Kolb	ERCS using backhoe to crush empty 55-gallon drums for off-site disposal.
4.12	11/13/96	0806	C. Kitz	ERCS using backhoe to excavate Test pit 1 at the south end of the site near the empty vats.
4.14	11/13/96	0812	C. Kitz	ERCS excavating Test pit 2 along the west property line.
5.01	11/13/96	0845	J. Kolb	ERCS excavating Test pit 5 at the north end of the long rectangular trench just south of the buildings.
5.02	11/13/96	0845	J. Kolb	View of soil in Test pit 5. Consisted of sandy gravel.
5.07	11/13/96	0905	J. Kolb	View of stained soil in Test pit 1.
5.08	11/13/96	0905	J. Kolb	View of sample 96-11-0001 location in Test pit 1.
5.09	11/13/96	0905	J. Kolb	View of sample 96-11-0002 location in Test pit 1.
5.11	11/13/96	0917	J. Kolb	View of Test pit 2 where sample 96-11-0003 was collected
5.12	11/13/96	0923	J. Kolb	View of Test pit 3 adjacent to the large debris pile where sample 96-11-0004 was collected.
5.14	11/13/96	0930	J. Kolb	View of Test pit 4 where sample 96-11-0005 was collected.
5.16	11/13/96	0948	J. Kolb	View of Test pit 5 looking south, where samples 96-11-0006 and 96-11-0007 were collected.
5.20	11/14/96	0930	J. Kolb	Location of sample 96-11-0008 at northeast corner of the saw-house.
5.22	11/14/96	0938	J. Kolb	Location of sample 96-11-0009 at southeast corner of the saw-house.
5.23	11/14/96	0946	J. Kolb	Location of sample 96-11-0010 at stained area of soil near a low depression.
5.25	11/14/96	0955	J. Kolb	Location of sample 96-11-0011 from within the depression.

# PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial #: 645489

TDD #: 96-10-0006

Lens Type: 30-70 mm

Site Name: Youngstrom Log Homes

Photo No.	Date	Time	By	Description
6.03	11/14/96	1410	J. Kolb	View of electronic equipment stockpiled on site.
6.05	11/14/96	1415	J. Kolb	Close-up view of arc welder label reads "Lincoln Electric Co., Shield Arc Welder".
6.07	11/14/96	1418	J. Kolb	Label reads "Square D Company, Los Angeles, California".
6.09	11/14/96	1418	J. Kolb	Label reads "Westinghouse Life-line Starter".
6.11	11/14/96	1422	J. Kolb	View of empty electrical transformer along western fence line, looking east.
6.13	11/14/96	1423	J. Kolb	Label on transformer reads "General Electric Transformer #6968876".
6.14	11/14/96	1435	J. Kolb	View of secondary staging area with overpacks that wastestreams have been bulked into.
6.18	11/14/96	1455	J. Kolb	ERCS moving filled overpacks from lean-to to secondary staging area.
7.01	11/14/96	1455	J. Kolb	View of bulking process in the lean-to area.
7.03	11/14/96	1015	J. Kolb	Location of sample 96-11-0012 from extreme north end of the site.
7.05	11/14/96	1032	J. Kolb	Location of samples 96-11-0013 and 96-11-0014 from area at south end of site adjacent to the Smoke Shop.
7.09	11/14/96	1045	J. Kolb	View of equipment stockpiled next to large debris pile, label reads "Victoreen Logarithmic Count Rate Meter".
7.10	11/14/96	1045	J. Kolb	Another piece of equipment, label reads "Atomic Instrument Co., Counting Rate Meter".
7.12	11/14/96	1049	J. Kolb	View of electrical equipment along western fence line adjacent to large debris pile.
7.13	11/14/96	1050	J. Kolb	View of radiation monitoring equipment.
7.15	11/14/96	1050	J. Kolb	Label reads "High Voltage DC Supply, property of U.S. Atomic Energy Commission".
7.16	11/14/96	1052	J. Kolb	Another piece of equipment, label reads "Cannon Electric Co."
7.17	11/14/96	1053	J. Kolb	Another piece of equipment, label reads "Hydro Pneumatic Action, Absorbotron Shock Absorber, Josam Mfg. Co.".
7.18	11/14/96	1053	J. Kolb	Another piece of equipment, label reads "Leeds Northrup Synchronous Motor".
7.19	11/14/96	1055	J. Kolb	View of area next to large debris pile where equipment is located.

### PHOTOGRAPH IDENTIFICATION SHEET

Camera Serial #: 645489

TDD #: 96-10-0006

Lens Type: 30-70 mm

Site Name: Youngstrom Log Homes

Photo No.	Date	Time	By	Description
7.21	11/14/96	1057	J. Kolb	Close-up of a piece of equipment, label reads "Consolidated Electrodynamics Corp."
7.22	11/14/96	1057	J. Kolb	Another piece of equipment, label reads "Foxboro Temperature Transmitter".
7.23	11/14/96	1058	J. Kolb	Another piece of equipment, label reads "Colortron Superior Model Graphic Arts Converter, Natural Lighting Corp."
7.24	11/14/96	1101	J. Kolb	Close-up of another piece of equipment, label reads "Allis Chalmers, Voltage Regulator".
8.01	11/18/96	1340	J. Kolb	ERCS moving filled overpacks into parking bays after demobilization of equipment.
8.07	11/19/96	0738	J. Kolb	View of oxygen-generating canister inside poly overpack that will be used for transport off site.
8.08	11/19/96	1035	J. Kolb	ERCS placing crushed empty drums into nonhazardous debris roll-off box.
8.10	11/19/96	1040	J. Kolb	View of the interior of the parking bays with more overpacks staged according to wastestream.
8.12	11/19/96	1400	J. Kolb	View inside of 5-gallon container of flammable zinc powder.
8.19	11/19/96	1610	J. Kolb	ERCS bulking 55-gallon drums of oil/water wastestream into overpacks.
8.21	11/20/96	0740	J. Kolb	ERCS emptying 5-gallon containers of non-RCRA sand into bucket of backhoe.
9.03	11/20/96	0920	J. Kolb	Dumping sand into roll-off box with backhoe.
9.08	11/20/96	1047	J. Kolb	ERCS emptying containers of sand inside parking bays into bucket on the backhoe.
9.11	11/20/96	1107	J. Kolb	ERCS placing visqueen, waste samples, and other debris into RCRA waste roll-off box.
9.15	11/20/96	1250	J. Kolb	View of the secondary staging area with all containers, visqueen, and debris removed.
9.17	11/20/96	1255	J. Kolb	View of the lean-to and 55-gallon staging areas with all containers and debris removed. The overpacks are unused empties.
9.20	11/20/96	1433	J. Kolb	Interior of parking bays, overpacks of various waste streams all the remain on site. ERCS is marking and labeling.
9.21	11/20/96	1505	J. Kolb	View of waste label for Liquid Tars, Class 3, wastestream.

## PHOTOGRAPH IDENTIFICATION SHEET

**Camera Serial #: 645489**

**TDD #: 96-10-0006**

**Lens Type: 30-70 mm**

**Site Name: Youngstrom Log Homes**

Photo No.	Date	Time	By	Description
10.01	11/21/96	0730	J. Kolb	View of waste label for Asbestos, Class 9, wastestream.
10.02	11/21/96	0730	J. Kolb	View of waste label for Sodium hydroxide, Class 8, wastestream.
10.03	11/21/96	0734	J. Kolb	View of waste label for Potassium peroxide, Class 5.1, wastestream.
10.04	11/21/96	0734	J. Kolb	View of waste label for Zinc powder, Class 4.3, wastestream.
10.06	11/21/96	0743	J. Kolb	Close-up view of caulk tube, labeled "Parr Alumilastic, Combustible".
10.08	11/21/96	0802	J. Kolb	ERCS loading overpacks into truck.
10.10	11/21/96	0814	J. Kolb	View of waste label for Waste paint-related material, Class 3, wastestream.
10.11	11/21/96	0815	J. Kolb	View of waste label for Grease, non-RCRA, wastestream.
10.12	11/21/96	0815	J. Kolb	View of waste label for caulk, non-RCRA, wastestream.
10.13	11/21/96	0815	J. Kolb	View of waste label for hazardous waste, liquid, n.o.s., (oils), Class 9, wastestream.
10.14	11/21/96	1030	J. Kolb	Interior of truck with all overpacks loaded and secured.
10.15	11/21/96	1054	J. Kolb	View of the interior of the parking bays with all overpacks, debris, and equipment removed.









































































































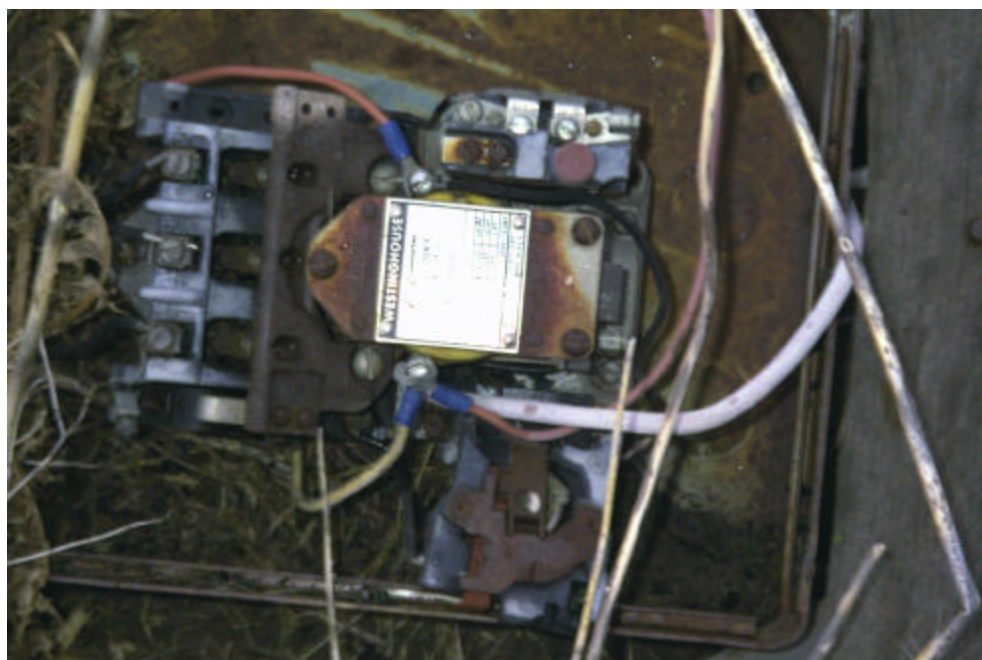
























































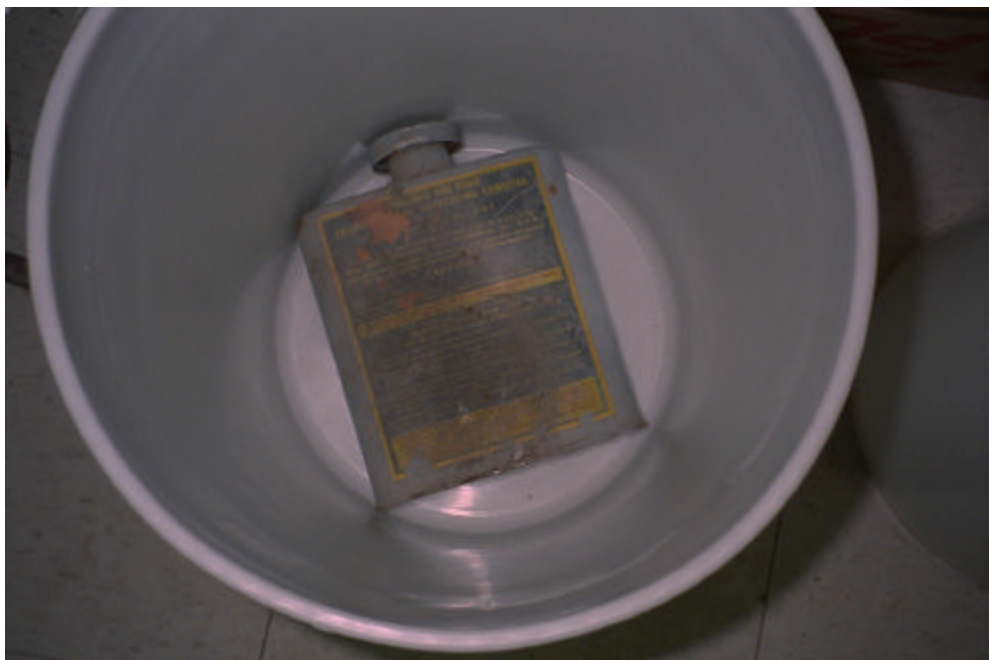






































[illegible]



1970006 & WS 6-0

**HAZARDOUS WASTE**

**FEDERAL LAW PROHIBITS IMPROPER DISPOSAL**  
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY  
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

REGISTRATION  
STATE (F) WV 176

U.S. PRINCIPAL  
SHIPPING NAME ARMSTRONG

REG  
EPA ID  
U.S. REG  
9, NA 2212, PG 111

GENERATOR  
NAME U.S. EPA Regional Office

ADDRESS 1000 North Ave

CITY SEATTLE

STATE WA

ZIP 98101

U.S. PRINCIPAL  
FBI ID EDB59467192

HAZARDOUS WASTE  
PROGRAM NO. 28004

**HAZARDOUS WASTE  
HANDLE WITH CARE**

40000, Rev. 4-84

Approved by EPA for use in the U.S. only. Do not use for export.



Label No. 15170016

**HAZARDOUS WASTE**

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL  
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY  
AUTHORITY OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

IDENTIFICATION  
EPA CASE NO. 15170016 EPA  
WASTE NO.

DOT NUMBER  
SHIPPING NAME: Sodium Hydroxide, Solid

HAZ  
(OTHER NAME)

UN OR  
UN NO. 8, UN 1823, PG I

GENERATED  
NAME: U.S. EPA Research & Development Lab Seattle

ADDRESS: 200 South Ave, Hill-11

CITY: SEATTLE STATE: WA, 98101

EPA  
ID NO. 200 98466915 L REPORT  
ACCOUNT NO. 54004

**HAZARDOUS WASTE  
HANDLE WITH CARE**

1121'98









[illegible]



**NON-RCRA  
REGULATED  
WASTE**

THIS WASTE HAS  
REGULATED IN THE  
U.S. ENVIRONMENTAL  
PROTECTION AGENCY  
NATIONAL SURVEY  
IS SUBJECT TO RCRA  
OR FEDERAL, STATE,  
OR LOCAL, OR LOCAL  
REGULATIONS.

GENERATOR INFORMATION

Company V.S. EPA REGION XI John Strick  
Address 100 N. 4th Ave. Los Alamitos  
City, State, Zip SEATTLE, WA 98101  
Personnel J. J. JAMES NAME  
J. JAMES  
EPA ID No. 000  
Phone (206) 553-1100

**NON-RCRA REGULATED WASTE**

NOTE: RCRA REGULATED WASTE IS SUBJECT TO RCRA AND RCRA REGULATIONS.

**NON-RCRA  
REGULATED  
WASTE**

THIS WASTE HAS  
REGULATED IN THE  
U.S. ENVIRONMENTAL  
PROTECTION AGENCY  
NATIONAL SURVEY  
IS SUBJECT TO RCRA  
OR FEDERAL, STATE,  
OR LOCAL, OR LOCAL  
REGULATIONS.

GENERATOR INFORMATION

Company V.S. EPA REGION XI John Strick  
Address 100 N. 4th Ave. Los Alamitos  
City, State, Zip SEATTLE, WA 98101  
Personnel J. J. JAMES NAME  
J. JAMES  
EPA ID No. 000  
Phone (206) 553-1100

**NON-RCRA REGULATED WASTE**

NOTE: RCRA REGULATED WASTE IS SUBJECT TO RCRA AND RCRA REGULATIONS.

**NON-RCRA  
REGULATED  
WASTE**

THIS WASTE HAS  
REGULATED IN THE  
U.S. ENVIRONMENTAL  
PROTECTION AGENCY  
NATIONAL SURVEY  
IS SUBJECT TO RCRA  
OR FEDERAL, STATE,  
OR LOCAL, OR LOCAL  
REGULATIONS.

GENERATOR INFORMATION

Company V.S. EPA REGION XI John Strick  
Address 100 N. 4th Ave. Los Alamitos  
City, State, Zip SEATTLE, WA 98101  
Personnel J. J. JAMES NAME  
J. JAMES  
EPA ID No. 000  
Phone (206) 553-1100

**NON-RCRA REGULATED WASTE**

NOTE: RCRA REGULATED WASTE IS SUBJECT TO RCRA AND RCRA REGULATIONS.

**NON-RCRA  
REGULATED  
WASTE**

THIS WASTE HAS  
REGULATED IN THE  
U.S. ENVIRONMENTAL  
PROTECTION AGENCY  
NATIONAL SURVEY  
IS SUBJECT TO RCRA  
OR FEDERAL, STATE,  
OR LOCAL, OR LOCAL  
REGULATIONS.

GENERATOR INFORMATION

Company V.S. EPA REGION XI John Strick  
Address 100 N. 4th Ave. Los Alamitos  
City, State, Zip SEATTLE, WA 98101  
Personnel J. J. Strick  
U-REAS E  
EPA ID No. 400-000-000  
Phone (206) 553-1100

**NON-RCRA REGULATED WASTE**

NOTE: RCRA REGULATED WASTE IS SUBJECT TO RCRA AND OTHER FEDERAL, STATE, OR LOCAL REGULATIONS.

**NON-RCRA  
REGULATED  
WASTE**

THIS WASTE HAS  
REGULATED IN THE  
U.S. ENVIRONMENTAL  
PROTECTION AGENCY  
NATIONAL SURVEY  
IS SUBJECT TO RCRA  
OF HAZARDOUS  
WASTE/TONG, LARSON,  
OR STATE OR LOCAL  
REGULATIONS

GENERATOR INFORMATION

Company V.S. EPA REGION XI John Strick  
Address 100 N. 4th Ave Los Alamitos  
City, State, Zip SEATTLE, WA 98101  
Personnel J. J. JAMES NAME  
J. JAMES  
EPA ID NO. 000  
Phone (206) 553-1100

**NON-RCRA REGULATED WASTE**

NOTE: RCRA is a Federal law that controls hazardous waste from cradle to grave. It requires that hazardous waste be properly managed and disposed of. Non-RCRA regulated waste is waste that is not hazardous under RCRA. This waste is not subject to RCRA's hazardous waste management and disposal requirements. However, it may be subject to other regulations, such as those of the Clean Water Act or the Clean Air Act.





[illegible]





**APPENDIX D**  
**POLLUTION REPORTS**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT**

**I. HEADING**

**DATE:** November 13, 1996

**FROM:** Carl Kitz, EPA OSC, Region 10

**DEPT:** OEC, EPA-10 (ECL-116)

Telephone 206-553-0125

**TO:** See Distribution List

**SUBJ:** Youngstrom Log Homes Removal Action POLREP #1 (Initial Polrep)  
Blackfoot, Idaho

**II. BACKGROUND**

Site ID: SSID# 102T

Action Memo Status: September 26, 1996

Delivery Order Number: 0012-10-040

NPL Status: Non-NPL

State Notification:

Removal Start Date: November 7, 1996

Expected Completion Date: November 22, 1996

Incident Category: Time Critical Removal Action

**III. SITE INFORMATION**

Incident Category:

The CERCLIS ID for the site is IDD984669192. The SSID for the site is 102T. This is a time critical removal action.

Site Description:

The Youngstrom Log Homes site is a former sawmill and loghome construction facility that was leased by Lewis Youngstrom from the Shoshone-Bannock Tribe. Mr. Youngstrom's lease was revoked in 1987 by the tribe and the property was abandoned. At the request of the tribe, the EPA conducted a removal assessment of the site in 1992. Site conditions documented at that time indicated that hundreds of 55-gallon drums and smaller containers were abandoned on site, were exposed to the elements, and were rusty, unlabeled, and in poor condition. Some appeared to have leaked their contents onto the ground. Samples were collected from 16 of the containers and contaminants detected included volatile organics, semi-volatile organics, pesticides, and metals. Field screening results indicated the presence of acids, bases, and flammable materials. Eight soil samples that were also collected targeted areas of stained soil and stressed vegetation. Sample results indicated contaminants similar to those found in the containers. These results were forwarded to the tribe along with recommendations concerning clean-up actions. The tribe requested additional assistance from the EPA in June 1996 after it was determined the tribe was unable to fund a clean-up action. At that time the tribe indicated there are also unconfirmed reports of buried wastes on site.

Physical Location:

The site is located within the Ft. Hall Indian Reservation approximately 3 miles from Blackfoot, Idaho. The surrounding area is predominantly agricultural in use, with a few scattered homes and businesses located nearby. The site is bordered on the west and north by an agricultural irrigation canal.

Site Characteristics:

The site consists of approximately 20 buildings in various states of disrepair, numerous piles of soil, wood, and metal debris, abandoned vehicles, an estimated 500-1,000 containers stockpiled at several on-site locations, and 2-3 low-lying pits or trenches. The site is fenced with either lograil or barbed wire fence, both of which in poor condition and are nonexistent in several locations.

#### **IV. RESPONSE INFORMATION**

##### **Planned Removal Activities:**

All containers will be moved and staged in one convenient location, their contents inventoried, sampled, and field screened. This data will be used to develop wastestreams for eventual off-site disposal. Soil will be excavated in areas suspected of waste burial, and soil samples collected. Depending on the analytical results, soils will also be disposed of off-site along with any buried wastes discovered. To prevent additional waste dumping or trespassing, a chain-link fence may be installed along the east side of the site, with the tribe to fund installation of the remainder.

##### **Situation and Next Steps:**

Situation: Removal action continues

Personnel On Site: OSC, START-1, ERCS-3

Weather: Skies are partly clear, with light winds and mid-day temperatures in the 50's.

##### **Summary to Date:**

Site mobilization occurred on November 7, 1996 with 1 OSC, 5 START, and 2 ERCS. Initial activities involved preparing the parking bays next to the office building for staging the containers. Due to the suspected presence of the Hanta Virus, this involved cleaning and sweeping in Level C protection. The area around the office building was graded for parking and staging of the office trailers, and roads were constructed to the container stockpiles located at the south end of the site. Once the containers were staged in the parking bays, START began opening and sampling the contents, and hazard categorized the samples in order to determine disposal wastestreams. On November 8, 1996 one additional START and ERCS each mobilized to the site. By November 9, 1996 all the containers were staged and opened, and ERCS began re-staging containers according to established wastestreams for eventual bulking purposes. A total of 1,145 containers were staged, opened, and the contents inventoried. Approximately 70 of these were 30-gallon or 55-gallon containers with material inside (an equal number were empty and were staged separately), and the remainder were 5-gallon buckets and 1-gallon cans. Sampling of all the containers was completed on November 11, 1996, and hazard categorization on November 12, 1996. Five START demobilized upon completion of these activities. ERCS continues to re-stage the containers according to wastestream and expects to begin bulking contents by today. ERCS also excavated 6 test pits in suspicious locations in search of buried wastes, with the OSC and START providing oversight. No indication of hazardous wastes were revealed, and most of the material either piled or buried on site appears to be wood or metal debris. START collected a soil sample from each test pit and will analyze on site for Pentachlorophenol as a precautionary measure.

##### **Next Steps:**

ERCS will continue to bulk contents of the containers according to wastestream and solicit bids for off-site disposal. Selection of a facility is expected by November 15, 1996. Partial demobilization is also expected for the same day, with mobilization back to the site for transportation of the wastes off site expected to occur November 18 or 19, 1996.

#### **V. COST INFORMATION**

The costs required to accomplish these actions are summarized below.



	Established <u>Ceilings</u>	Estimated Costs <u>Thru Nov. 12, 1996</u>
ERCS	\$250,000	\$29,371
START	\$ 40,000	\$22,725
EPA	\$ 20,000	\$ 4,000
Contingency	\$ 27,000	--
Total Project Costs	\$337,000	\$56,096

## **VI. DISPOSITION OF WASTES**

To date no wastes have been transported off site for disposal.

## **VII. STATUS**

Case pending.

## **DISTRIBUTION**

EPA OEC/Region X, Fax (206) 553-0124  
Attention: LeRoy Loiselle, Gary Sink

EPA OEC/Region X IOO, Fax (208) 334-1231  
Attention: William Freutel

EPA HQ, Washington D.C., Fax (703) 603-9107  
Attention: Terry Eby

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT**

**I. HEADING**

**DATE:** November 15, 1996  
**FROM:** Carl Kitz, EPA OSC, Region 10  
**DEPT:** OEC, EPA-10 (ECL-116)  
Telephone 206-553-0125  
**TO:** See Distribution List  
**SUBJ:** Youngstrom Log Homes Removal Action POLREP #2  
Blackfoot, Idaho

**II. BACKGROUND**

Site ID: SSID# 102T  
Action Memo Status: September 26, 1996  
Delivery Order Number: 0012-10-040  
NPL Status: Non-NPL  
State Notification:  
Removal Start Date: November 7, 1996  
Expected Completion Date: November 22, 1996  
Incident Category: Time Critical Removal Action

**III. SITE INFORMATION**

Incident Category:

The CERCLIS ID for the site is IDD984669192. The SSID for the site is 102T. This is a time critical removal action.

Site Description:

See the initial Polrep (Polrep #1).

Physical Location:

See the initial Polrep (Polrep #1).

Site Characteristics:

See the initial Polrep (Polrep #1).

**IV. RESPONSE INFORMATION**

Planned Removal Activities:

All containers will be moved and staged in one convenient location, their contents inventoried, sampled, and field screened. This data will be used to develop wastestreams for eventual off-site disposal. Soil will be excavated in areas suspected of waste burial, and soil samples collected. Depending on the analytical results, soils will also be disposed of off-site along with any buried wastes discovered. To prevent additional waste dumping or trespassing, a chain-link fence may be installed along the east side of the site, with the tribe to fund installation of the remainder.

## Situation and Next Steps:

Situation: Removal action continues

Personnel On Site: OSC, START-1, ERCS-4

Weather: Skies are mostly cloudy, with light to moderate winds and mid-day temperatures in the high 30's.

Snow is forecast for the next several days.

## Summary to Date:

Site mobilization occurred on November 7, 1996 with 1 OSC, 5 START, and 2 ERCS. Initial activities involved preparing the parking bays next to the office building for staging the containers. Due to the suspected presence of the hantavirus, this involved cleaning and sweeping in Level C protection. The area around the office building was graded for parking and staging of the office trailers, and roads were constructed to the container stockpiles located at the south end of the site. Once the containers were staged in the parking bays, START began opening and sampling the contents, and hazard categorized the samples in order to determine disposal wastestreams. On November 8, 1996 one additional START and ERCS each mobilized to the site. By November 9, 1996 all the containers were staged and opened, and ERCS began re-staging containers according to established wastestreams for eventual bulking purposes. A total of 1,145 containers were staged, opened, and the contents inventoried. Approximately 70 of these were 30-gallon or 55-gallon containers with material inside (an equal number were empty and were staged separately), and the remainder were 5-gallon buckets and 1-gallon cans. Sampling of all the containers was completed on November 11, 1996, and hazard categorization on November 12, 1996. Five START demobilized upon completion of these activities. ERCS re-staged the containers according to wastestream in order to facilitate bulking, which began on November 12, 1996. On the same day, ERCS also excavated 6 test pits in suspicious locations in search of buried wastes, with the OSC and START providing oversight. No indication of hazardous wastes were revealed, and most of the material either piled or buried on site appears to be wood or metal debris. START collected a soil sample from each test pit and from other locations, and analyzed the samples on site for pentachlorophenol as a precautionary measure on November 14, 1996. All 14 of the samples analyzed were non-detect. Today a fourth ERCS mobilized to the site and the majority of bulking will be completed. In addition, final selection of disposal facilities is also expected for today.

## Next Steps:

ERCS will finish bulking the contents of containers on November 18, 1996, with transport of the wastes off site likely to begin on November 20, 1996. ERCS is still awaiting laboratory analysis of two wastestreams, with results expected on November 19, 1996. Depending on this data, these wastestreams will either be recycled or disposed of as hazardous.

## V. COST INFORMATION

The costs required to accomplish these actions are summarized below.

	<u>Established Ceilings</u>	<u>Estimated Costs Thru Nov. 12, 1996</u>
ERCS	\$250,000	\$41,879
START	\$ 40,000	\$26,250
EPA	\$ 20,000	\$ 4,600
Contingency	\$ 27,000	--
Total Project Costs	\$337,000	\$72,729

## **VI. DISPOSITION OF WASTES**

To date no wastes have been transported off site for disposal.

## **VII. STATUS**

Case pending.

## **DISTRIBUTION**

EPA OEC/Region X, Fax (206) 553-0124  
Attention: LeRoy Loiselle, Gary Sink

EPA OEC/Region X IOO, Fax (208) 334-1231  
Attention: William Freutel

EPA HQ, Washington D.C., Fax (703) 603-9107  
Attention: Terry Eby

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT**

**I. HEADING**

**DATE:** November 19, 1996  
**FROM:** Carl Kitz, EPA OSC, Region 10  
**DEPT:** OEC, EPA-10 (ECL-116)  
Telephone 206-553-0125  
**TO:** See Distribution List  
**SUBJ:** Youngstrom Log Homes Removal Action POLREP #3  
Blackfoot, Idaho

**II. BACKGROUND**

Site ID: SSID# 102T  
Action Memo Status: Signed September 26, 1996  
Delivery Order Number: 0012-10-040  
NPL Status: Non-NPL  
State Notification:  
Removal Start Date: November 7, 1996  
Expected Completion Date: November 22, 1996  
Incident Category: Time Critical Removal Action

**III. SITE INFORMATION**

Incident Category:

The CERCLIS ID for the site is IDD984669192. The SSID for the site is 102T. This is a time critical removal action.

Site Description:

See the initial Polrep (Polrep #1).

Physical Location:

See the initial Polrep (Polrep #1).

Site Characteristics:

See the initial Polrep (Polrep #1).

**IV. RESPONSE INFORMATION**

Planned Removal Activities:

All containers will be moved and staged in one convenient location, their contents inventoried, sampled, and field screened. This data will be used to develop wastestreams for eventual off-site disposal. Soil will be excavated in areas suspected of waste burial, and soil samples collected. Depending on the analytical results, soils will also be disposed of off-site along with any buried wastes discovered. To prevent additional waste dumping or trespassing, a chain-link fence may be installed along the east side of the site, with the tribe to fund installation of the remainder.

## Situation and Next Steps:

Situation: Removal action continues

Personnel On Site: OSC, START-1, ERCS-3

Weather: Skies are cloudy, with moderate to strong winds and mid-day temperatures in the 50's. Snow and freezing rain the last several days have made for a muddy site.

## Summary to Date:

Site mobilization occurred on November 7, 1996 with 1 OSC, 5 START, and 2 ERCS. Initial activities involved preparing the parking bays next to the office building for staging the containers. Due to the suspected presence of the hantavirus, this involved cleaning and sweeping in Level C protection. The area around the office building was graded for parking and staging of the office trailers, and roads were constructed to the container stockpiles located at the south end of the site. Once the containers were staged in the parking bays, START began opening and sampling the contents, and hazard categorized the samples in order to determine disposal wastestreams. On November 8, 1996 one additional START and ERCS each mobilized to the site. By November 9, 1996 all the containers were staged and opened, and ERCS began re-staging sampled containers according to established wastestreams for eventual bulking purposes. A total of 1,145 containers were staged, opened, and the contents inventoried. Approximately 70 of these were 30-gallon or 55-gallon containers with material inside (an equal number were empty and were staged separately), and the remainder were 5-gallon buckets and 1-gallon cans.

Sampling of the containers was completed on November 11, 1996, and hazard categorization on November 12, 1996. Five START demobilized upon completion of these activities. ERCS continued re-staging the containers according to wastestream in order to facilitate bulking, which began on November 12, 1996. On the same day, ERCS also excavated 6 test pits in suspicious locations in search of buried wastes, with the OSC and START providing oversight. No indication of hazardous wastes were revealed, and most of the material either piled or buried on site appears to be wood or metal debris. START collected a soil sample from each test pit and from other locations, and analyzed the samples on site for pentachlorophenol as a precautionary measure on November 14, 1996. All 14 of the samples analyzed were non-detect. On November 15, 1996 EnviroSAFE Services, of Idaho Inc., (ESI) of Grandview, Idaho was selected as the disposal facility. A fourth ERCS mobilized to the site on the same day and bulking and re-staging continued.

On November 18, 1996 one ERCS demobilized from the site, and the majority of bulking was completed. ERCS re-staged the overpacks in the parking bays in order to get them out of the weather. Today the first roll-off box was delivered to the site and clean, crushed containers and other non-hazardous waste was placed inside it. ERCS finished bulking into overpacks and staged these inside the parking bay with the others.

## Next Steps:

Two additional roll-off boxes will be delivered to the site on November 20, 1996 and ERCS will bulk RCRA and non-RCRA debris into them. Labels and markings will also be affixed to these and they will be transported off site on the same day. The overpacks will also be labeled, and the van truck is scheduled to be on site November 21, 1996 to transport them to ESI. Demobilization will then occur on November 22, 1996.

## V. COST INFORMATION

The costs required to accomplish these actions are summarized below.

	<u>Established Ceilings</u>	<u>Estimated Costs Thru Nov. 18, 1996</u>
ERCS	\$250,000	\$44,879 (estimated)
START	\$ 40,000	\$27,025
EPA	\$ 20,000	\$ 4,900
Contingency	\$ 27,000	--
Total Project Costs	\$337,000	\$76,804

## **VI. DISPOSITION OF WASTES**

To date no wastes have been transported off site for disposal.

## **VII. STATUS**

Case pending.

## **DISTRIBUTION**

EPA OEC/Region X, Fax (206) 553-0124  
Attention: LeRoy Loiselle, Gary Sink

EPA OEC/Region X IOO, Fax (208) 378-5744  
Attention: William Freutel

EPA HQ, Washington D.C., Fax (703) 603-9107  
Attention: Terry Eby



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT**

**I. HEADING**

**DATE:** November 21, 1996  
**FROM:** Carl Kitz, EPA OSC, Region 10  
**DEPT:** OEC, EPA-10 (ECL-116)  
Telephone 206-553-0125  
**TO:** See Distribution List  
**SUBJ:** Youngstrom Log Homes Removal Action POLREP #4  
Blackfoot, Idaho

**II. BACKGROUND**

Site ID: SSID# 102T  
Action Memo Status: Signed September 26, 1996  
Delivery Order Number: 0012-10-040  
NPL Status: Non-NPL  
State Notification:  
Removal Start Date: November 7, 1996  
Expected Completion Date: November 22, 1996  
Incident Category: Time Critical Removal Action

**III. SITE INFORMATION**

Incident Category:

The CERCLIS ID for the site is IDD984669192. The SSID for the site is 102T. This is a time critical removal action.

Site Description:

See the initial Polrep (Polrep #1).

Physical Location:

See the initial Polrep (Polrep #1).

Site Characteristics:

See the initial Polrep (Polrep #1).

**IV. RESPONSE INFORMATION**

Planned Removal Activities:

All containers will be moved and staged in one convenient location, their contents inventoried, sampled, and field screened. This data will be used to develop wastestreams for eventual off-site disposal. Soil will be excavated in areas suspected of waste burial, and soil samples collected. Depending on the analytical results, soils will also be disposed of off-site along with any buried wastes discovered. To prevent additional waste dumping or trespassing, a chain-link fence may be installed along the east side of the site, with the tribe to fund installation of the remainder.

## Situation and Next Steps:

Situation: Removal action continues

Personnel On Site: OSC, START-1, ERCS-3

Weather: Skies are partly cloudy, with light winds and mid-day temperatures in the 50's.

## Summary to Date:

Site mobilization occurred on November 7, 1996 with 1 OSC, 5 START, and 2 ERCS. Initial activities involved preparing the parking bays next to the office building for staging the containers. Due to the suspected presence of the hantavirus, this involved cleaning and sweeping in Level C protection. The area around the office building was graded for parking and staging of the office trailers, and roads were constructed to the container stockpiles located at the south end of the site. Once the containers were staged in the parking bays, START began opening and sampling the contents, and hazard categorized the samples in order to determine disposal wastestreams. On November 8, 1996 one additional START and ERCS each mobilized to the site. By November 9, 1996 all the containers were staged and opened, and ERCS began re-staging sampled containers according to established wastestreams for eventual bulking purposes. A total of 1,145 containers were staged, opened, and the contents inventoried. Approximately 70 of these were 30-gallon or 55-gallon containers with material inside (an equal number were empty and were staged separately), and the remainder were 5-gallon buckets and 1-gallon cans.

Sampling of the containers was completed on November 11, 1996, and hazard categorization on November 12, 1996. Five START demobilized upon completion of these activities. ERCS continued re-staging the containers according to wastestream in order to facilitate bulking, which began on November 12, 1996. On the same day, ERCS also excavated 6 test pits in suspicious locations in search of buried wastes, with the OSC and START providing oversight. No indication of hazardous wastes were revealed, and most of the material either piled or buried on site appears to be wood or metal debris. START collected a soil sample from each test pit and from other locations, and analyzed the samples on site for pentachlorophenol as a precautionary measure on November 14, 1996. All 14 of the samples analyzed were non-detect. Based on this information, the OSC decided not to pursue further soil extent-of-contamination activities unless additional information could be found to more accurately determine any areas of waste burial or dumping. On November 15, 1996 EnviroSAFE Services, of Idaho Inc., (ESI) of Grandview, Idaho was selected as the disposal facility. A fourth ERCS mobilized to the site on the same day and bulking and re-staging continued.

On November 18, 1996 one ERCS demobilized from the site, and the majority of bulking was completed. ERCS re-staged the overpacks in the parking bays in order to get them out of the weather. On November 19, 1996 the first roll-off box was delivered to the site and clean, crushed containers and other non-hazardous waste was placed inside it. ERCS also finished bulking into overpacks and staged these inside the parking bay with the others.

Two 40-yard dump trucks arrived at the site on November 20, 1996 and ERCS proceeded to empty the 5-gallon buckets of silica into one of them designated for non-RCRA waste. The empty buckets were crushed and also placed into the truck. The second truck was used for RCRA waste, including 5-gallon buckets of varnishes, resins, and adhesives, PPE, the samples hazcatted by the START, visqueen used to bulk and stage containers on, and crushed, dirty drums. The non-RCRA truck was nearly ½ full, while the RCRA truck was filled. Both trucks departed around midday. Also on November 20, 1996, ERCS and START began marking and labeling the overpacks in preparation for transport off site.

Today the tractor trailer truck arrived on site and ERCS began loading the overpacks into it while START continued with marking and labeling. With the manifests signed this truck was also off site by midday, and a partial demobilization began, with the return of the remaining heavy equipment and rental item such as the fax machine and PortaJohns.

## Next Steps:

Demobilization will be completed by November 22, 1996, when power and phone service will be shut-off, and the office trailers retrieved. The OSC, START, and ERCS will depart for home on the same day. The OSC has decided not to pursue construction of a chain-link fence.

## V. COST INFORMATION

The costs required to accomplish these actions are summarized below.

	<u>Established Ceilings</u>	<u>Estimated Costs Thru Nov. 20, 1996</u>
ERCS	\$250,000	\$92,453
START	\$ 40,000	\$28,650
EPA	\$ 20,000	\$ 5,500
Contingency	\$ 27,000	--
Total Project Costs	\$337,000	\$126,603

## VI. DISPOSITION OF WASTES

November 20, 1996:

- ~ 20 cubic yards of non-RCRA debris
- ~ 40 cubic yards of RCRA debris

November 21, 1996:

- (19) 55-gallon overpacks of liquid tars
- (5) 85-gallon overpacks of liquid tars
- (10) 55-gallon overpacks of oil/water mixtures
- (2) 55-gallon overpacks of grease
- (2) 85-gallon overpacks of grease
- (1) 55-gallon overpack of lithium grease
- (45) 55-gallon overpacks of waste paint-related materials
- (1) 55-gallon overpack of asbestos-containing material
- (1) 55-gallon overpack of a caustic solid
- (2) 55-gallon overpacks of lab-packed zinc powder
- (4) 5-gallon lab-packs of oxygen-generating containers

## VII. STATUS

Case pending.

## DISTRIBUTION

EPA OEC/Region X, Fax (206) 553-0124  
Attention: LeRoy Loiselle, Gary Sink

EPA OEC/Region X IOO, Fax (208) 378-5744  
Attention: William Freutel

EPA HQ, Washington D.C., Fax (703) 603-9107  
Attention: Terry Eby

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT**

**I. HEADING**

**DATE: January 22, 1997**

**FROM: Carl Kitz, EPA OSC, Region 10**

**DEPT: OEC, EPA-10 (ECL-116)**

**Telephone 206-553-0125**

**TO: See Distribution List**

**SUBJ: Youngstrom Log Homes Removal Action POLREP #5 (Final Polrep)  
Blackfoot, Idaho**

**II. BACKGROUND**

Site ID: SSID# 102T

Action Memo Status: Signed September 26, 1996

Delivery Order Number: 0012-10-040

NPL Status: Non-NPL

State Notification:

Removal Start Date: November 7, 1996

Expected Completion Date: November 22, 1996

Incident Category: Time Critical Removal Action

**III. SITE INFORMATION**

Incident Category:

The CERCLIS ID for the site is IDD984669192. The SSID for the site is 102T. This is a time critical removal action.

Site Description:

See the initial Polrep (Polrep #1).

Physical Location:

See the initial Polrep (Polrep #1).

Site Characteristics:

See the initial Polrep (Polrep #1).

**IV. RESPONSE INFORMATION**

Planned Removal Activities:

All containers will be moved and staged in one convenient location, their contents inventoried, sampled, and field screened. This data will be used to develop wastestreams for eventual off-site disposal. Soil will be excavated in areas suspected of waste burial, and soil samples collected. Depending on the analytical results, soils will also be disposed of off-site along with any buried wastes discovered. To prevent additional waste dumping or trespassing, a chain-link fence may be installed along the east side of the site, with the tribe to fund installation of the remainder.

## Situation and Next Steps:

Situation: Removal action concluded

Personnel On Site: Not applicable

Weather: Not applicable

## Summary to Date:

Site mobilization occurred on November 7, 1996 with 1 OSC, 5 START, and 2 ERCS. Initial activities involved preparing the parking bays next to the office building for staging the containers. Due to the suspected presence of the hantavirus, this involved cleaning and sweeping in Level C protection. The area around the office building was graded for parking and staging of the office trailers, and roads were constructed to the container stockpiles located at the south end of the site. Once the containers were staged in the parking bays, START began opening and sampling the contents, and hazard categorized the samples in order to determine disposal wastestreams. On November 8, 1996 one additional START and ERCS each mobilized to the site. By November 9, 1996 all the containers were staged and opened, and ERCS began re-staging sampled containers according to established wastestreams for eventual bulking purposes. A total of 1,145 containers were staged, opened, and the contents inventoried. Approximately 70 of these were 30-gallon or 55-gallon containers with material inside (an equal number were empty and were staged separately), and the remainder were 5-gallon buckets and 1-gallon cans.

Sampling of the containers was completed on November 11, 1996, and hazard categorization on November 12, 1996. Five START demobilized upon completion of these activities. ERCS continued re-staging the containers according to wastestream in order to facilitate bulking, which began on November 12, 1996. On the same day, ERCS also excavated 6 test pits in suspicious locations in search of buried wastes, with the OSC and START providing oversight. No indication of hazardous wastes were revealed, and most of the material either piled or buried on site appears to be wood or metal debris. START collected a soil sample from each test pit and from other locations, and analyzed the samples on site for pentachlorophenol as a precautionary measure on November 14, 1996. All 14 of the samples analyzed were non-detect. Based on this information, the OSC decided not to pursue further soil extent-of-contamination activities unless additional information could be found to more accurately determine any areas of waste burial or dumping. On November 15, 1996 EnviroSAFE Services, of Idaho Inc., (ESI) of Grandview, Idaho was selected as the disposal facility. A fourth ERCS mobilized to the site on the same day and bulking and re-staging continued.

On November 18, 1996 one ERCS demobilized from the site, and the majority of bulking was completed. ERCS re-staged the overpacks in the parking bays in order to get them out of the weather. On November 19, 1996 the first roll-off box was delivered to the site and clean, crushed containers and other non-hazardous waste was placed inside it. ERCS also finished bulking into overpacks and staged these inside the parking bay with the others.

Two 40-yard dump trucks arrived at the site on November 20, 1996 and ERCS proceeded to empty the 5-gallon buckets of silica into one of them designated for non-RCRA waste. The empty buckets were crushed and also placed into the truck. The second truck was used for RCRA waste, including 5-gallon buckets of varnishes, resins, and adhesives, PPE, the samples hazcatted by the START, visqueen used to bulk and stage containers on, and crushed, dirty drums. The non-RCRA truck was nearly ½ full, while the RCRA truck was filled. Both trucks departed around midday. Also on November 20, 1996, ERCS and START began marking and labeling the overpacks in preparation for transport off site.

On November 21, 1996 a tractor trailer truck arrived on site and ERCS began loading the overpacks into it while START continued with marking and labeling. Once the manifests were signed this truck was off site by midday, and the OSC, START, and ERCS began demobilizing. This demobilization was completed on November 22, 1996 when the office trailers, heavy equipment, and rental items were removed from the site, and power and phone services were shut off. The OSC, START, and ERCS departed for home on the same day, after the OSC decided not to pursue construction of a chain-link fence.

## Next Steps:

The OSC and START are currently producing a removal report summarizing activities, costs, and waste disposition. The ERCS will assist with information on final costs and waste disposal.

## V. COST INFORMATION

The costs required to accomplish these actions are summarized below.

	<u>Established Ceilings</u>	<u>Estimated Costs Thru Jan. 22, 1997</u>
ERCS	\$250,000	\$106,233
START	\$ 40,000	\$ 33,850
EPA	\$ 20,000	\$ 5,500
Contingency	\$ 27,000	--
Total Project Costs	\$337,000	\$145,583

## VI. DISPOSITION OF WASTES

Envirosafe Services of Idaho, Inc.

Grandview, Idaho

Sodium Hydroxide, Solid, (1) 55-gallon drum, 200 pounds

Hazardous Waste, Liquid, n.o.s. (Oil), D008, (10) 55-gallon drums, 550 gallons

RQ, Asbestos, (1) 55-gallon drum, 500 pounds

Non-regulated Grease, (3) 55-gallon drums and (2) 85-gallon overpacks, 200 gallons

RQ Waste Environmentally Hazardous Substances, Solid, n.o.s. (D008), 35 cubic yards

Non-regulated sand, 22,000 pounds

Aptus Rollins OPC

Aragonite, Utah

Waste paint-related materials, D001, D007, D008, F002, F003, (2) 55-gallon drums, 300 pounds

Waste paint-related materials, D001, D006, D007, D008, F002, F003, (43) 55-gallon drums, 13,500 pounds

Tars, Liquid, D001, (19) 55-gallon drums and (5) 85-gallon overpacks, 8,400 pounds

Potassium peroxide, D003, D005, (4) 5-gallon lab-packs, 6 pounds

## VII. STATUS

A final removal report documenting all site activities is currently being produced.

## DISTRIBUTION

EPA OEC/Region X, Fax (206) 553-0124

Attention: LeRoy Loiselle, Gary Sink

EPA OEC/Region X IOO, Fax (208) 378-5744

Attention: William Freutel

EPA HQ, Washington D.C., Fax (703) 603-9107

Attention: Terry Eby

**APPENDIX E**  
**CONTAINER INVENTORY**



**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
1	5-gallons	dented
2	5-gallons	good
3	5-gallons	good
4	5-gallons	good
5	5-gallons	good, bit rusty
6	5-gallons	good, bit rusty
7	5-gallons	dented and rusty
8	5-gallons	good
9	5-gallons	rusty
10	5-gallons	good
11	5-gallons	rusty
12	5-gallons	rusty
13	1-gallon	rusty
14	5-gallons	rusty with holes
15	5-gallons	rusty
16	5-gallons	rusty with holes
17	5-gallons	dented and rusty
18	5-gallons	good
19	5-gallons	good
20	5-gallons	rusty and open
21	5-gallons	good
22	5-gallons	good
23	5-gallons	good
24	5-gallons	rusty and open
25	5-gallons	rusty
26	1-quart	empty
27	1-gallon	rusty
28	5-gallons	rusty and open
29	5-gallons	dented
30	5-gallons	good
31	5-gallons	good
32	5-gallons	good
33	5-gallons	good
34	5-gallons	good
35	5-gallons	good
36	5-gallons	good
37	5-gallons	good
38	5-gallons	good
39	5-gallons	good
40	5-gallons	dented
41	5-gallons	dented
42	5-gallons	good
43	5-gallons	good
44	5-gallons	good
45	5-gallons	good
46	5-gallons	good
47	5-gallons	rusty
48	5-gallons	dented

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
49	5-gallons	dented
50	5-gallons	dented
51	5-gallons	rusty
52	5-gallons	rusty
53	5-gallons	rusty
54	5-gallons	rusty and open
55	5-gallons	rusty and open
56	5-gallons	rusty
57	5-gallons	dented and rusty
58	5-gallons	rusty and open
59	5-gallons	rusty and open
60	5-gallons	rusty and open
61	5-gallons	rusty and open
62	5-gallons	rusty and open
63	5-gallons	rusty and open
64	5-gallons	rusty and open
65	5-gallons	rusty
66	5-gallons	rusty and open
67	5-gallons	rusty and open
68	5-gallons	rusty and open
69	5-gallons	rusty
70	5-gallons	rusty
71	5-gallons	good, open
72	5-gallons	good
73	5-gallons	good
74	5-gallons	rusty
75	5-gallons	good
76	5-gallons	good
77	5-gallons	dented
78	5-gallons	rusty
79	5-gallons	rusty and open
80	5-gallons	rusty
81	5-gallons	rusty
82	5-gallons	good
83	5-gallons	good and open
84	5-gallons	rusty and open
85	5-gallons	rusty and open
86	5-gallons	good
87	5-gallons	good
88	5-gallons	good and open
89	5-gallons	good
90	5-gallons	good
91	5-gallons	dented and open
92	5-gallons	dented
93	5-gallons	dented and open
94	5-gallons	good
95	5-gallons	open
96	5-gallons	good

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
97	5-gallons	rusty
98	5-gallons	rusty
99	5-gallons	rusty
100	5-gallons	rusty and open
101	5-gallons	rusty
102	5-gallons	good
103	5-gallons	rusty and open
104	5-gallons	rusty
105	5-gallons	good
106	1-quart	rusty and open
107	1-gallon	rusty and open
108	1-gallon	rusty and open
109	5-gallons	rusty
110	5-gallons	rusty and open
111	5-gallons	rusty
112	5-gallons	rusty
113	5-gallons	rusty
114	5-gallons	rusty
115	5-gallons	rusty
116	5-gallons	rusty
117	5-gallons	rusty
118	5-gallons	good
119	5-gallons	good
120	5-gallons	good
121	5-gallons	rusty
122	5-gallons	rusty and open
123	5-gallons	crushed
124	5-gallons	crushed
125	5-gallons	crushed
126	5-gallons	rusty
127	5-gallons	rusty and open
128	5-gallons	rusty
129	5-gallons	dented
130	5-gallons	good
131	5-gallons	good
132	5-gallons	dented, spilled
133	5-gallons	rusty
134	5-gallons	rusty
135	5-gallons	
136	5-gallons	rusty and open
137	5-gallons	good
138	5-gallons	rusty, holes
139	5-gallons	rusty and open
140	5-gallons	rusty
141	5-gallons	rusty
142	5-gallons	rusty
143	5-gallons	rusty
144	5-gallons	white poly, open

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
145	5-gallons	black poly, open
146	5-gallons	rusty and open
147	5-gallons	rusty and open
148	5-gallons	rusty and open
149	5-gallons	dented and rusty
150	5-gallons	good
151	5-gallons	rusty
152	5-gallons	dented
153	5-gallons	rusty
154	5-gallons	rusty
155	5-gallons	dented and rusty
156	5-gallons	rusty
157	5-gallons	rusty
158	5-gallons	rusty
159	5-gallons	rusty
160	5-gallons	dented and rusty
161	5-gallons	dented and rusty
162	5-gallons	dented and rusty, open
163	5-gallons	dented
164	5-gallons	rusty
165	5-gallons	rusty
166	5-gallons	rusty
167	5-gallons	dented and rusty
168	5-gallons	rusty
169	5-gallons	rusty
170	5-gallons	rusty
171	5-gallons	rusty
172	1-gallon	rusty
173	1-gallon	rusty
174	5-gallon	rusty and open
175	5-gallon	rusty
176	5-gallon	rusty
177	5-gallon	good and rusty
178	5-gallon	good
179	5-gallon	good and open
180	5-gallon	good and open
181	5-gallon	rusty
182	5-gallon	rusty
183	5-gallon	rusty
184	5-gallon	rusty
185	5-gallon	rusty
186	5-gallon	rusty and open
187	5-gallon	rusty and open
188	5-gallon	rusty and open
189	5-gallon	rusty
190	5-gallon	rusty
191	5-gallon	rusty
192	5-gallon	rusty

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
193	5-gallon	rusty and open
194	5-gallon	rusty and open
195	5-gallon	good and rusty
196	5-gallon	good and rusty
197	5-gallon	dented and rusty
198	5-gallon	good and rusty
199	5-gallon	dented and rusty
200	5-gallon	rusty
201	5-gallon	good
202	5-gallon	rusty and open
203	5-gallon	rusty
204	5-gallon	rusty
205	5-gallon	rusty
206	5-gallon	rusty
207	5-gallon	rusty
208	5-gallon	rusty
209	5-gallon	rusty
210	5-gallon	rusty
211	5-gallon	rusty
212	5-gallon	rusty
213	5-gallon	rusty
214	5-gallon	rusty
215	5-gallon	rusty and open
216	5-gallon	rusty
217	5-gallon	good
218	5-gallon	good
219	5-gallon	good
220	5-gallon	good
221	5-gallon	good
222	5-gallon	good
223	5-gallon	rusty and open
224	5-gallon	rusty
225	5-gallon	rusty
226	5-gallon	rusty
227	5-gallon	rusty
228	5-gallon	rusty
229	5-gallon	rusty
230	5-gallon	good
231	5-gallon	rusty
232	5-gallon	rusty
233	5-gallon	rusty
234	5-gallon	good and rusty
235	5-gallon	good and rusty
236	5-gallon	good and rusty
237	5-gallon	good and rusty
238	5-gallon	good and rusty
239	5-gallon	good and rusty
240	5-gallon	rusty

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
241	5-gallon	rusty
242	5-gallon	rusty and open
243	5-gallon	rusty
244	5-gallon	rusty
245	5-gallon	good and rusty
246	5-gallon	good and rusty
247	5-gallon	good and rusty
248	5-gallon	good and rusty
249	5-gallon	good and rusty
250	5-gallon	good and rusty
251	5-gallon	good and rusty
252	5-gallon	good and rusty
253	5-gallon	good and rusty
254	5-gallon	good and rusty
255	5-gallon	good and rusty
256	5-gallon	good and rusty
257	5-gallon	good and rusty
258	5-gallon	good and rusty
259	5-gallon	good and rusty
260	5-gallon	good and rusty
261	5-gallon	good and rusty
262	5-gallon	good and rusty
263	5-gallon	good and rusty
264	5-gallon	good and rusty
265	5-gallon	good and rusty
266	5-gallon	good and rusty
267	5-gallon	good and rusty
268	5-gallon	good and rusty
269	5-gallon	good and rusty
270	5-gallon	good and rusty, open
271	5-gallon	rusty and open
272	5-gallon	rusty and open
273	5-gallon	rusty
274	5-gallon	rusty and open
275	5-gallon	good and rusty
276	5-gallon	good and rusty
277	5-gallon	good and rusty
278	5-gallon	good and rusty
279	5-gallon	good and rusty
280	5-gallon	good and rusty
281	5-gallon	good and rusty
282	5-gallon	good and rusty
283	5-gallon	open
284	5-gallon	good
285	5-gallon	good
286	5-gallon	rusty and open
287	5-gallon	good and rusty
288	5-gallon	good and rusty

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
289	5-gallon	good and rusty
290	5-gallon	good and rusty
291	5-gallon	good and rusty
292	5-gallon	good and rusty
293	5-gallon	good and rusty
294	5-gallon	rusty
295	5-gallon	dented and rusty
296	5-gallon	rusty
297	5-gallon	dented and rusty
298	5-gallon	rusty
299	5-gallon	rusty
300	5-gallon	rusty
301	5-gallon	rusty
302	5-gallon	good
303	5-gallon	good and rusty
304	5-gallon	dented and rusty
305	5-gallon	rusty
306	5-gallon	dented and rusty
307	5-gallon	good and rusty
308	5-gallon	good and rusty
309	5-gallon	good and rusty
310	5-gallon	rusty and open
311	5-gallon	good
312	5-gallon	rusty
313	5-gallon	rusty
314	5-gallon	rusty
315	5-gallon	good
316	5-gallon	rusty
317	5-gallon	rusty
318	5-gallon	rusty
319	5-gallon	rusty
320	5-gallon	rusty
321	5-gallon	good
322	5-gallon	good
323	5-gallon	good
324	5-gallon	good
325	5-gallon	good
326	5-gallon	good
327	5-gallon	good
328	5-gallon	good
329	5-gallon	good
330	5-gallon	good
331	5-gallon	good
332	5-gallon	dented
333	5-gallon	dented
334	5-gallon	good
335	5-gallon	good
336	5-gallon	good

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
337	5-gallon	good
338	5-gallon	good
339	5-gallon	good
340	5-gallon	good
341	5-gallon	good with spillage
342	5-gallon	good
343	5-gallon	good
344	5-gallon	good
345	5-gallon	good
346	5-gallon	good
347	5-gallon	good with spillage
348	5-gallon	good with spillage
349	5-gallon	good
350	5-gallon	rusty and hole
351	5-gallon	rusty
352	5-gallon	rusty
353	5-gallon	rusty
354	5-gallon	rusty
355	5-gallon	rusty
356	5-gallon	rusty
357	5-gallon	rusty
358	5-gallon	rusty
359	5-gallon	rusty
360	5-gallon	rusty
361	5-gallon	good with spillage
362	5-gallon	good with spillage
363	5-gallon	good with spillage
364	5-gallon	good
365	5-gallon	good
366	5-gallon	good
367	5-gallon	dented and rusty
368	5-gallon	rusty and holes
369	5-gallon	rusty and holes
370	5-gallon	rusty
371	5-gallon	rusty
372	5-gallon	rusty and holes
373	5-gallon	rusty and holes
374	5-gallon	dented and rusty
375	5-gallon	rusty
376	5-gallon	rusty
377	5-gallon	rusty and open
378	5-gallon	rusty and open
379	5-gallon	rusty
380	5-gallon	rusty and open
381	5-gallon	rusty and open
382	5-gallon	rusty
383	5-gallon	rusty
384	5-gallon	rusty



**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

<b>Container #</b>	<b>Size</b>	<b>Condition</b>
385	5-gallon	rusty and open
386	5-gallon	dented and rusty
387	5-gallon	rusty
388	5-gallon	rusty
389	5-gallon	rusty and open
390	5-gallon	rusty
391	5-gallon	rusty
392	5-gallon	rusty
393	5-gallon	rusty
394	5-gallon	rusty
395	5-gallon	rusty
396	5-gallon	rusty
397	5-gallon	rusty
398	5-gallon	rusty
399	5-gallon	rusty
400	5-gallon	rusty and holes
401	5-gallon	open
402	5-gallon	rusty
403	5-gallon	rusty
404	5-gallon	rusty and open
405	5-gallon	rusty and open
406	5-gallon	rusty
407	5-gallon	rusty
408	5-gallon	dented and rusty
409	5-gallon	good and rusty
410	5-gallon	good and rusty
411	5-gallon	good and rusty
412	5-gallon	good and rusty
413	5-gallon	good and rusty
414	5-gallon	good and rusty
415	5-gallon	good and rusty
416	5-gallon	good and rusty
417	5-gallon	good and rusty
418	5-gallon	good and rusty
419	5-gallon	good and rusty
420	5-gallon	rusty and open
421	5-gallon	good and rusty
422	5-gallon	good and rusty
423	5-gallon	good and rusty
424	5-gallon	good and rusty
425	5-gallon	good and rusty
426	5-gallon	good and rusty
427	5-gallon	good and rusty
428	5-gallon	good and rusty
429	5-gallon	good and rusty
430	5-gallon	good and rusty
431	5-gallon	good and rusty
432	5-gallon	good and rusty

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
433	5-gallon	rusty and open
434	5-gallon	dented and rusty
435	5-gallon	dented and rusty
436	5-gallon	rusty
437	5-gallon	rusty
438	5-gallon	dented and rusty
439	5-gallon	dented and rusty
440	5-gallon	dented and rusty
441	5-gallon	dented and rusty
442	5-gallon	dented and rusty
443	5-gallon	rusty and open
444	5-gallon	rusty
445	5-gallon	good
446	5-gallon	open and holes
447	5-gallon	dented and rusty
448	5-gallon	good and rusty
449	5-gallon	good
450	5-gallon	dented
451	5-gallon	rusty
452	5-gallon	rusty
453	5-gallon	rusty
454	5-gallon	rusty
455	5-gallon	dented and rusty
456	5-gallon	dented and rusty
457	5-gallon	rusty
458	5-gallon	dented and rusty
459	5-gallon	rusty
460	5-gallon	rusty
461	5-gallon	rusty
462	5-gallon	good and rusty
463	5-gallon	good and rusty
464	5-gallon	good and rusty
465	5-gallon	good and rusty
466	5-gallon	good and rusty
467	5-gallon	good and rusty
468	5-gallon	good and rusty
469	5-gallon	good and rusty
470	5-gallon	good and rusty
471	5-gallon	good and rusty
472	5-gallon	good and rusty
473	5-gallon	good and rusty
474	5-gallon	good and rusty
475	5-gallon	dented
476	5-gallon	rusty
477	5-gallon	rusty
478	5-gallon	rusty
479	5-gallon	rusty
480	5-gallon	rusty and open

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

<b>Container #</b>	<b>Size</b>	<b>Condition</b>
481	5-gallon	rusty
482	5-gallon	rusty and open
483	5-gallon	rusty
484	5-gallon	good
485	5-gallon	good
486	5-gallon	good
487	5-gallon	good
488	5-gallon	rusty
489	5-gallon	rusty and open
490	5-gallon	rusty
491	5-gallon	rusty and open
492	5-gallon	rusty and open
493	5-gallon	rusty and open
494	5-gallon	rusty and open
495	5-gallon	rusty and open
496	5-gallon	rusty and open
497	5-gallon	rusty and open
498	5-gallon	broken white poly
499	5-gallon	black poly
500	5-gallon	white poly
501	5-gallon	rusty
502	5-gallon	rusty
503	5-gallon	rusty and open
504	5-gallon	rusty
505	5-gallon	rusty and open, holes
506	5-gallon	rusty
507	5-gallon	rusty
508	5-gallon	open white poly
509	5-gallon	rusty
510	5-gallon	rusty
511	5-gallon	rusty
512	5-gallon	rusty and open
513	5-gallon	rusty
514	5-gallon	rusty
515	5-gallon	rusty
516	5-gallon	rusty and open
517	5-gallon	rusty
518	5-gallon	rusty
519	5-gallon	rusty
520	5-gallon	rusty and open
521	5-gallon	rusty
522	5-gallon	rusty and open
523	5-gallon	rusty
524	5-gallon	rusty
525	5-gallon	rusty and open
526	5-gallon	rusty
527	5-gallon	rusty
528	5-gallon	rusty

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
529	5-gallon	rusty and open
530	5-gallon	crushed
531	5-gallon	open
532	5-gallon	open
533	5-gallon	rusty
534	5-gallon	rusty
535	5-gallon	dented and open
536	5-gallon	dented and rusty
537	5-gallon	rusty
538	5-gallon	rusty and open
539	5-gallon	dented and rusty
540	5-gallon	dented
541	5-gallon	good and greasy
542	5-gallon	good and greasy
543	5-gallon	good and greasy
544	5-gallon	good and greasy
545	5-gallon	good and greasy
546	5-gallon	good and greasy
547	5-gallon	good and greasy
548	5-gallon	good and greasy
549	5-gallon	good and greasy
550	5-gallon	good and greasy
551	5-gallon	good and greasy
552	5-gallon	good and greasy
553	5-gallon	good and greasy
554	5-gallon	good and greasy
555	5-gallon	good and greasy
556	5-gallon	good and greasy
557	5-gallon	good and greasy
558	5-gallon	good and greasy
559	5-gallon	good and greasy
560	5-gallon	good and greasy
561	5-gallon	good and greasy
562	5-gallon	good and greasy
563	5-gallon	good and greasy
564	5-gallon	good and greasy
565	5-gallon	good and greasy
566	5-gallon	good and greasy
567	5-gallon	good
568	5-gallon	dented
569	5-gallon	dented
570	5-gallon	dented
571	5-gallon	dented
572	5-gallon	rusty
573	1-gallon	dented rusty paint can
574	1-gallon	dented rusty paint can
575	1-gallon	dented rusty paint can
576	1-gallon	dented rusty paint can

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
577	1-gallon	dented rusty paint can
578	1-gallon	dented rusty paint can
579	1-gallon	dented rusty paint can
580	1-gallon	dented rusty paint can
581	1-gallon	dented rusty paint can
582	1-gallon	dented rusty paint can
583	1-gallon	dented rusty paint can
584	1-gallon	dented rusty paint can
585	1-gallon	dented rusty paint can
586	1-gallon	dented rusty paint can
587	1-gallon	dented rusty paint can
588	1-gallon	dented rusty paint can
589	1-gallon	dented rusty paint can
590	1-gallon	dented rusty paint can
591	1-gallon	dented rusty paint can
592	1-gallon	dented rusty paint can
593	1-gallon	dented rusty paint can
594	1-gallon	dented rusty paint can
595	1-gallon	dented rusty paint can
596	1-gallon	dented rusty paint can
597	1-gallon	dented rusty paint can
598	1-gallon	dented rusty paint can
599	1-gallon	dented rusty paint can
600	1-quart	dented and rusty
601	1-quart	dented and rusty
602	1-quart	dented and rusty
603	1-quart	dented and rusty
604	1-quart	dented and rusty
605	1-quart	dented and rusty
606	1-quart	dented and rusty
607	1-quart	dented and rusty
608	1-quart	dented and rusty
609	1-quart	dented and rusty
610	1-quart	dented and rusty
611	1-quart	dented and rusty
612	1-quart	dented and rusty
613	1-quart	dented and rusty
614	1-quart	dented and rusty
615	1-quart	dented and rusty
616	1-quart	dented and rusty
617	1-quart	dented and rusty
618	1-quart	dented and rusty
619	1-quart	dented and rusty
620	1-quart	dented and rusty
621	1-quart	dented and rusty
622	1-quart	dented and rusty
623	1-quart	dented and rusty
624	1-quart	dented and rusty

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

<b>Container #</b>	<b>Size</b>	<b>Condition</b>
625	1-quart	dented and rusty
626	1-quart	dented and rusty
627	1-quart	dented and rusty
628	1-quart	dented and rusty
629	1-quart	dented and rusty
630	1-quart	dented and rusty
631	1-quart	dented and rusty
632	1-quart	dented and rusty
633	1-quart	dented and rusty
634	1-quart	dented and rusty
635	1-quart	dented and rusty
636	1-quart	dented and rusty
637	1-quart	dented and rusty
638	1-quart	dented and rusty
639	1-quart	dented and rusty
640	1-quart	dented and rusty
641	1-quart	dented and rusty
642	1-quart	dented and rusty
643	1-quart	dented and rusty
644	1-quart	dented and rusty
645	1-quart	dented and rusty
646	1-quart	dented and rusty
647	1-quart	dented and rusty
648	1-quart	dented and rusty
649	1-quart	dented and rusty
650	1-quart	dented and rusty
651	1-quart	dented and rusty
652	1-quart	dented and rusty
653	1-quart	dented and rusty
654	1-quart	dented and rusty
655	1-quart	dented and rusty
656	1-quart	dented and rusty
657	1-quart	dented and rusty
658	1-quart	dented and rusty
659	1-quart	dented and rusty
660	1-quart	dented and rusty
661	1-quart	dented and rusty
662	1-quart	dented and rusty
663	1-quart	dented and rusty
664	1-quart	dented and rusty
665	1-quart	dented and rusty
666	1-quart	dented and rusty
667	1-quart	dented and rusty
668	1-quart	dented and rusty
669	1-quart	dented and rusty
670	1-quart	dented and rusty
671	1-pint	rusty soup can
672	1-quart	rusty with spillage

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
673	1-pint	rusty soup can
674	1-pint	rusty soup can
675	5-gallon	open, rusty, square can
676	5-gallon	dented and rusty
677	5-gallon	dented and rusty
678	5-gallon	good
679	5-gallon	good
680	5-gallon	dented and rusty, hole
681	5-gallon	square, rusty and holes
682	5-gallon	dented and rusty, holes
683	5-gallon	dented and rusty, holes
684	5-gallon	dented and rusty, holes
685	5-gallon	dented and rusty, holes
686	5-gallon	dented and rusty, holes
687	5-gallon	dented and rusty, holes
688	5-gallon	dented and rusty, holes
689	5-gallon	dented and rusty, holes
690	8-gallon	good and open
691	5-gallon	dented and rusty, holes
692	5-gallon	dented and open
693	5-gallon	rusty
694	5-gallon	dented and rusty
695	5-gallon	rusty
696	5-gallon	dented and rusty
697	5-gallon	rusty and holes
698	5-gallon	good
699	5-gallon	square, dented, rusty, and open
700	5-gallon	dented and rusty
701	5-gallon	dented and rusty
702	5-gallon	good
703	5-gallon	dented and rusty
704	5-gallon	good and rusty
705	5-gallon	good and rusty
706	5-gallon	good and rusty
707	5-gallon	good
708	5-gallon	dented and rusty
709	5-gallon	dented and open
710	5-gallon	rusty
711	5-gallon	dented and holes
712	5-gallon	flattened
713	5-gallon	open
714	5-gallon	dented and rusty
715	5-gallon	dented and rusty
716	5-gallon	dented and rusty
717	5-gallon	square, dented and rusty
718	5-gallon	rusty and holes
719	5-gallon	open
720	5-gallon	good, hole in lid

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
721	5-gallon	good and open
722	5-gallon	good and open
723	5-gallon	crushed
724	5-gallon	dented and open
725	5-gallon	good
726	5-gallon	rusty and holes
727	5-gallon	rusty and holes
728	5-gallon	dented and rusty
729	5-gallon	rusty and holes
730	5-gallon	rusty and open
731	5-gallon	holes
732	5-gallon	open
733	5-gallon	rusty
734	5-gallon	rusty and holes
735	5-gallon	dented and good
736	5-gallon	rusty and open
737	5-gallon	good
738	5-gallon	holes
739	5-gallon	
740	5-gallon	good
741	5-gallon	dented and rusty
742	5-gallon	holes
743	5-gallon	rusty and open
744	5-gallon	dented and rusty
745	5-gallon	
746	5-gallon	
747	5-gallon	holes
748	5-gallon	crushed
749	5-gallon	good
750	1-gallon	dented rusty paint cans
751	1-gallon	dented rusty paint cans
752	1-gallon	dented rusty paint cans
753	1-gallon	dented rusty paint cans
754	1-gallon	dented rusty paint cans
755	1-gallon	dented rusty paint cans
756	1-gallon	dented rusty paint cans
757	1-gallon	dented rusty paint cans
758	1-gallon	dented rusty paint cans
759	1-gallon	dented rusty paint cans
760	1-gallon	dented rusty paint cans
761	1-gallon	dented rusty paint cans
762	1-gallon	dented rusty paint cans
763	1-gallon	dented rusty paint cans
764	1-gallon	dented rusty paint cans
765	1-gallon	dented rusty paint cans
766	1-gallon	dented rusty paint cans
767	1-gallon	dented rusty paint cans
768	1-gallon	dented rusty paint cans



**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
769	1-gallon	dented rusty paint cans
770	1-gallon	dented rusty paint cans
771	1-gallon	dented rusty paint cans
772	1-gallon	dented rusty paint cans
773	1-gallon	dented rusty paint cans
774	1-gallon	dented rusty paint cans
775	1-gallon	dented rusty paint cans
776	1-gallon	dented rusty paint cans
777	1-gallon	dented rusty paint cans
778	1-gallon	dented rusty paint cans
779	1-gallon	dented rusty paint cans
780	1-gallon	dented rusty paint cans
781	1-gallon	dented rusty paint cans
782	1-gallon	dented rusty paint cans
783	1-quart	dented rusty paint cans
784	1-quart	dented rusty paint cans
785	1-quart	dented rusty paint cans
786	1-gallon	dented rusty paint cans
787	1-gallon	dented rusty paint cans
788	1-gallon	dented rusty paint cans
789	1-gallon	dented rusty paint cans
790	1-gallon	dented rusty paint cans
791	1-gallon	dented rusty paint cans
792	1-gallon	dented rusty paint cans
793	1-gallon	dented rusty paint cans
794	1-gallon	dented rusty paint cans
795	1-gallon	dented rusty paint cans
796	1-gallon	dented rusty paint cans
797	1-gallon	dented rusty paint cans
798	1-gallon	dented rusty paint cans
799	1-gallon	dented rusty paint cans
800	1-gallon	dented rusty paint cans
801	1-gallon	dented rusty paint cans
802	1-gallon	dented rusty paint cans
803	1-gallon	dented rusty paint cans
804	1-gallon	dented rusty paint cans
805	1-gallon	dented rusty paint cans
806	1-quart	dented rusty paint cans
807	1-gallon	dented rusty paint cans
808	1-gallon	dented rusty paint cans
809	1-gallon	dented rusty paint cans
810	1-gallon	dented rusty paint cans
811	1-gallon	dented rusty paint cans
812	1-gallon	dented rusty paint cans
813	1-gallon	dented rusty paint cans
814	1-quart	dented rusty paint cans
815	1-quart	dented rusty paint cans
816	1-quart	dented rusty paint cans

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
817	1-quart	dented rusty paint cans
818	1-quart	dented rusty paint cans
819	1-quart	dented rusty paint cans
820	1-quart	dented rusty paint cans
821	1-gallon	dented rusty paint cans
822	1-gallon	dented rusty paint cans
823	1-gallon	dented rusty paint cans
824	1-gallon	dented rusty paint cans
825	1-gallon	dented rusty paint cans
826	1-gallon	dented rusty paint cans
827	1-gallon	dented rusty paint cans
828	1-gallon	dented rusty paint cans
829	1-gallon	dented rusty paint cans
830	1-gallon	dented rusty paint cans
831	1-gallon	dented rusty paint cans
832	1-gallon	dented rusty paint cans
833	1-gallon	dented rusty paint cans
834	1-gallon	dented rusty paint cans
835	1-gallon	dented rusty paint cans
836	1-gallon	dented rusty paint cans
837	1-gallon	dented rusty paint cans
838	1-gallon	dented rusty paint cans
839	1-gallon	dented rusty paint cans
840	1-gallon	dented rusty paint cans
841	1-gallon	dented rusty paint cans
842	1-gallon	dented rusty paint cans
843	1-gallon	dented rusty paint cans
844	1-gallon	dented rusty paint cans
845	1-gallon	dented rusty paint cans
846	1-gallon	dented rusty paint cans
847	1-gallon	dented rusty paint cans
848	1-gallon	dented rusty paint cans
849	1-gallon	dented rusty paint cans
850	1-gallon	dented rusty paint cans
851	1-gallon	dented rusty paint cans
852	1-gallon	dented rusty paint cans
853	1-gallon	dented rusty paint cans
854	1-gallon	dented rusty paint cans
855	1-gallon	dented rusty paint cans
856	1-gallon	dented rusty paint cans
857	1-gallon	dented rusty paint cans
858	1-gallon	dented rusty paint cans
859	1-gallon	dented rusty paint cans
860	1-gallon	dented rusty paint cans
861	1-gallon	dented rusty paint cans
862	1-gallon	dented rusty paint cans
863	1-gallon	dented rusty paint cans
864	1-gallon	dented rusty paint cans

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

<b>Container #</b>	<b>Size</b>	<b>Condition</b>
865	1-gallon	dented rusty paint cans
866	1-gallon	dented rusty paint cans
867	1-gallon	dented rusty paint cans
868	1-gallon	dented rusty paint cans
869	1-gallon	dented rusty paint cans
870	1-gallon	dented rusty paint cans
871	1-gallon	dented rusty paint cans
872	1-gallon	dented rusty paint cans
873	1-gallon	dented rusty paint cans
874	1-gallon	dented rusty paint cans
875	1-gallon	dented rusty paint cans
876	1-gallon	dented rusty paint cans
877	1-gallon	dented rusty paint cans
878	1-gallon	dented rusty paint cans
879	1-gallon	dented rusty paint cans
880	1-gallon	dented rusty paint cans
881	1-gallon	dented rusty paint cans
882	1-gallon	dented rusty paint cans
883	1-gallon	dented rusty paint cans
884	1-gallon	dented rusty paint cans
885	1-gallon	dented rusty paint cans
886	1-gallon	dented rusty paint cans
887	1-gallon	dented rusty paint cans
888	1-gallon	dented rusty paint cans
889	1-gallon	dented rusty paint cans
890	1-gallon	dented rusty paint cans
891	1-gallon	dented rusty paint cans
892	1-gallon	dented rusty paint cans
893	1-gallon	dented rusty paint cans
894	1-gallon	dented rusty paint cans
895	1-gallon	dented rusty paint cans
896	1-gallon	dented rusty paint cans
897	1-gallon	dented rusty paint cans
898	1-gallon	dented rusty paint cans
899	1-gallon	dented rusty paint cans
900	1-gallon	dented rusty paint cans
901	1-gallon	dented rusty paint cans
902	1-gallon	dented rusty paint cans
903	1-gallon	dented rusty paint cans
904	1-gallon	dented rusty paint cans
905	1-gallon	dented rusty paint cans
906	1-gallon	dented rusty paint cans
907	1-gallon	dented rusty paint cans
908	1-gallon	dented rusty paint cans
909	1-gallon	dented rusty paint cans
910	1-gallon	dented rusty paint cans
911	1-gallon	dented rusty paint cans
912	1-gallon	dented rusty paint cans

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
913	1-gallon	dented rusty paint cans
914	1-gallon	dented rusty paint cans
915	1-gallon	dented rusty paint cans
916	1-gallon	dented rusty paint cans
917	1-gallon	dented rusty paint cans
918	1-gallon	dented rusty paint cans
919	1-gallon	dented rusty paint cans
920	1-gallon	dented rusty paint cans
921	1-gallon	dented rusty paint cans
922	1-gallon	dented rusty paint cans
923	1-gallon	dented rusty paint cans
924	1-gallon	dented rusty paint cans
925	1-gallon	dented rusty paint cans
926	1-gallon	dented rusty paint cans
927	1-gallon	dented rusty paint cans
928	1-gallon	dented rusty paint cans
929	1-gallon	dented rusty paint cans
930	1-gallon	dented rusty paint cans
931	1-gallon	dented rusty paint cans
932	1-gallon	dented rusty paint cans
933	1-gallon	dented rusty paint cans
934	1-gallon	dented rusty paint cans
935	1-gallon	dented rusty paint cans
936	1-gallon	dented rusty paint cans
937	1-gallon	dented rusty paint cans
938	1-gallon	dented rusty paint cans
939	1-gallon	dented rusty paint cans
940	1-gallon	dented rusty paint cans
941	1-gallon	dented rusty paint cans
942	55-gallon	dented and rusty, bung
943	55-gallon	dented and rusty, bung
944	55-gallon	dented and rusty, bung
945	30-gallon	bulging with spigot
946	30-gallon	rusty and open
947	55-gallon	rusty, bung
948	30-gallon	rusty, ring
949	55-gallon	dented, bung
950	55-gallon	rusty, bung
951	5-gallon	dented and rusty
952	55-gallon	rusty, ring
953	55-gallon	rusty, bung
954	55-gallon	rusty, bung
955	55-gallon	dented and rusty, bung
956	55-gallon	dented and rusty, bung
957	55-gallon	rusty, bung
958	55-gallon	rusty, bung
959	55-gallon	dented and open
960	55-gallon	good, bung

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
961	55-gallon	crushed and open
962	55-gallon	good, bung
963	55-gallon	dented and rusty, bung
964	55-gallon	good, bung
965	55-gallon	good bung
966	55-gallon	good and greasy, bung
967	55-gallon	dented, bung
968	5-gallon	dented
969	55-gallon	bulging, bung
970	1-gallon	rusty paint can
971	55-gallon	good, bung
972	55-gallon	good and greasy, bung
973	55-gallon	dented, bung
974	55-gallon	good, bung
975	55-gallon	good, bung
976	55-gallon	good and greasy, bung
977	55-gallon	rusty and open
978	55-gallon	rusty, bung
979	55-gallon	dented and rusty, bung
980	55-gallon	good and open
981	55-gallon	good and rusty, bung
982	55-gallon	dented and rusty, bung
983	55-gallon	good, bung
984	55-gallon	good, bung
985	55-gallon	rusty, bung
986	55-gallon	rusty and crushed, open
987	55-gallon	rusty and crushed, open
988	55-gallon	good, ring
989	55-gallon	good, ring
990	55-gallon	rusty and open
991	55-gallon	rusty, bung
992	55-gallon	dented and rusty, bung
993	55-gallon	dented and holes, bung
994	55-gallon	dented, bung
995	55-gallon	rusty, bung
996	55-gallon	rusty, bung
997	55-gallon	dented with spillage
998	55-gallon	rusty, bung
999	30-gallon	dented and rusty, bung
1000	55-gallon	dented and rusty, open
1001	55-gallon	dented and rusty, open
1002	55-gallon	dented and rusty, open
1003	55-gallon	good and open
1004	55-gallon	dented and rusty, bung
1005	55-gallon	rusty, bung
1006	30-gallon	rusty with spigot
1007	55-gallon	rusty and open
1008	55-gallon	rusty, bung

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
1009	55-gallon	dented, bung
1010	55-gallon	rusty, bung
1011	55-gallon	rusty, bung
1012	55-gallon	rusty, bung
1013	55-gallon	rusty, bung
1014	55-gallon	rusty, bung
1015	55-gallon	dented, bung
1016	55-gallon	dented, bung
1017	55-gallon	rusty and open
1018	55-gallon	dented and open
1019	1-gallon	dented, rusty paint cans
1020	1-gallon	dented, rusty paint cans
1021	1-gallon	dented, rusty paint cans
1022	1-gallon	dented, rusty paint cans
1023	1-gallon	dented, rusty paint cans
1024	1-gallon	dented, rusty paint cans
1025	1-gallon	dented, rusty paint cans
1026	1-gallon	dented, rusty paint cans
1027	1-gallon	dented, rusty paint cans
1028	1-gallon	dented, rusty paint cans
1029	1-gallon	dented, rusty paint cans
1030	1-gallon	dented, rusty paint cans
1031	1-gallon	dented, rusty paint cans
1032	1-gallon	dented, rusty paint cans
1033	1-gallon	dented, rusty paint cans
1034	1-gallon	dented, rusty paint cans
1035	1-gallon	dented, rusty paint cans
1036	1-gallon	dented, rusty paint cans
1037	1-gallon	dented, rusty paint cans
1038	1-gallon	dented, rusty paint cans
1039	1-gallon	dented, rusty paint cans
1040	1-gallon	dented, rusty paint cans
1041	1-gallon	dented, rusty paint cans
1042	1-gallon	dented, rusty paint cans
1043	1-gallon	dented, rusty paint cans
1044	1-gallon	dented, rusty paint cans
1045	1-gallon	dented, rusty paint cans
1046	1-gallon	dented, rusty paint cans
1047	1-gallon	dented, rusty paint cans
1048	1-gallon	dented, rusty paint cans
1049	1-gallon	dented, rusty paint cans
1050	1-gallon	dented, rusty paint cans
1051	1-gallon	dented, rusty paint cans
1052	1-gallon	dented, rusty paint cans
1053	1-gallon	dented, rusty paint cans
1054	1-gallon	dented, rusty paint cans
1055	1-gallon	dented, rusty paint cans
1056	1-gallon	dented, rusty paint cans

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
1057	1-gallon	dented, rusty paint cans
1058	1-gallon	dented, rusty paint cans
1059	1-gallon	dented, rusty paint cans
1060	1-gallon	dented, rusty paint cans
1061	1-gallon	dented, rusty paint cans
1062	1-gallon	dented, rusty paint cans
1063	1-gallon	dented, rusty paint cans
1064	1-gallon	dented, rusty paint cans
1065	1-gallon	dented, rusty paint cans
1066	1-gallon	dented, rusty paint cans
1067	1-gallon	dented, rusty paint cans
1068	1-gallon	dented, rusty paint cans
1069	1-gallon	dented, rusty paint cans
1070	1-gallon	dented, rusty paint cans
1071	1-gallon	dented, rusty paint cans
1072	1-gallon	dented, rusty paint cans
1073	1-gallon	dented, rusty paint cans
1074	1-gallon	dented, rusty paint cans
1075	1-gallon	dented, rusty paint cans
1076	1-gallon	dented, rusty paint cans
1077	1-gallon	dented, rusty paint cans
1078	1-gallon	dented, rusty paint cans
1079	1-gallon	dented, rusty paint cans
1080	1-gallon	dented, rusty paint cans
1081	1-quart	dented, rusty paint cans
1082	1-quart	dented, rusty paint cans
1083	1-quart	dented, rusty paint cans
1084	1-quart	dented, rusty paint cans
1085	1-quart	dented, rusty paint cans
1086	1-quart	dented, rusty paint cans
1087	1-quart	dented, rusty paint cans
1088	1-quart	dented, rusty paint cans
1089	1-quart	dented, rusty paint cans
1090	1-quart	dented, rusty paint cans
1091	1-gallon	dented, rusty paint cans
1092	1-gallon	dented, rusty paint cans
1093	1-gallon	dented, rusty paint cans
1094	1-gallon	dented, rusty paint cans
1095	1-gallon	dented, rusty paint cans
1096	1-gallon	dented, rusty paint cans
1097	1-gallon	dented, rusty paint cans
1098	1-gallon	dented, rusty paint cans
1099	1-gallon	dented, rusty paint cans
1100	1-gallon	dented, rusty paint cans
1101	1-gallon	dented, rusty paint cans
1102	1-gallon	dented, rusty paint cans
1103	1-gallon	dented, rusty paint cans
1104	1-gallon	dented, rusty paint cans

**YOUNGSTROM LOG HOMES REMOVAL SITE**  
**BLACKFOOT, IDAHO**  
**CONTAINER INVENTORY**  
**NOVEMBER, 1996**

Container #	Size	Condition
1105	1-gallon	dented, rusty paint cans
1106	1-gallon	dented, rusty paint cans
1107	1-gallon	dented, rusty paint cans
1108	1-gallon	dented, rusty paint cans
1109	1-gallon	dented, rusty paint cans
1110	1-gallon	dented, rusty paint cans
1111	1-gallon	dented, rusty paint cans
1112	1-gallon	dented, rusty paint cans
1113	1-gallon	dented, rusty paint cans
1114	1-gallon	dented, rusty paint cans
1115	1-gallon	dented, rusty paint cans
1116	1-gallon	dented, rusty paint cans
1117	1-gallon	dented, rusty paint cans
1118	1-gallon	dented, rusty paint cans
1119	1-gallon	dented, rusty paint cans
1120	1-gallon	dented, rusty paint cans
1121	1-gallon	dented, rusty paint cans
1122	1-gallon	dented, rusty paint cans
1123	1-gallon	dented, rusty paint cans
1124	1-gallon	dented, rusty paint cans
1125	1-gallon	dented, rusty paint cans
1126	1-gallon	dented, rusty paint cans
1127	1-gallon	dented, rusty paint cans
1128	1-gallon	dented, rusty paint cans
1129	1-gallon	dented, rusty paint cans
1130	1-gallon	dented, rusty paint cans
1131	1-gallon	dented, rusty paint cans
1132	1-gallon	dented, rusty paint cans
1133	1-gallon	dented, rusty paint cans
1134	1-gallon	dented, rusty paint cans
1135	1-gallon	dented, rusty paint cans
1136	1-gallon	dented, rusty paint cans
1137	5-gallon	open
1138		
1139	5-gallon	dented and rusty
1140	5-gallon	good
1141		square dented tank
1142		
1143		
1144		
1145		



**APPENDIX F**

**HAZARD CATEGORIZATION DATA**

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
1	Red, paint-like	7	-	7	-	-	-	IS	>200	-	NA
2	Black tar	300	-	-	-	-	-	IS	100-140	-	NA
3	Black tar	400	-	-	-	-	-	IS	100-140	-	NA
4	Dark brown oil	2000	-	5	-	-	-	Floater	100-140	-	NA
5	Hard yellow gel	600	-	7	-	-	-	IS	140-200	-	Organic
6	Hard paint residue	1300	NA	NA	NA	NA	NA	IS	140-200	-	NA
7	Black, crumbly, spongy	5	-	7	-	-	-	Sol./Cloudy	>200	-	NA
8	Very dry paint	300	-	7	-	-	-	IS	>200	Bluegreen	Organic
9	Black tar	300	-	7	-	-	-	IS/floats	140-200	Green	NA
10	Dry paint	2	-	7	-	-	-	IS	>200	-	NA
11	Rust flakes	600	-	4	-	-	-	IS	Nonflam.	Green	Org. Resd.
12	Dark Motor Oil	2000	-	NA	NA	NA	NA	Sinker	140-200	Green	
13											
14	Rust flakes	3	-	NA	NA	NA	NA	IS	Nonflam.	Green	NA
15	Oil tar/rusty water	2000	-/+	-/5	-/-	-/-	-/-	/sol.	140-200/	Green/Green	Org./
16	Greenish tar granules	1	-	7	-	-	-	IS	>200	-	Char
17	White granules	2000	-	8	-	-	-	IS	100-140	-	Non-char
18	Clear oil	2000	-	6	-	-	-	Floats	100-140	-	Char
19	Black tar	300	NA	NA	NA	NA	NA	NA	100-140	-	NA
20	Amber gel	0	NA	7	NA	NA	NA	IS/sinks	100-140	-	No soot
21	Brown oil/water	0	-/+	-/7	-/-	NA	-/-	Floats/	140-200	-	soot/clean
22	Black tar	>200	NA	NA	NA	NA	NA	NA	100-140	-	NA
23	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
24	Brownish pink sugary powder	0	NA	7	-	NA	-	SS/sinks	-	-	Combust.
25	Red paint sludge and water	10.3	+	7	-	NA	-	IS/sinks	140-200	Bright yellow	Soot
26	Yellow paint flakes	0	NA	7	-	NA	+	IS/sinks	>200	-	No char
27	White granular gel	50	-	7	-	NA	-	SS/emul.	140-200	-	Soot
28	Brownish pink sugary powder	0	NA	7	-	NA	-	SS/sinks	-	-	Combust.
29	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
30	Black tar	>500	-	7	NA	NA	NA	IS	100-140	-	Soot
31	Black tar	1257	NA	7	NA	NA	NA	IS	100-140	-	Soot
32	Black tar	>400	NA	NA	NA	NA	NA	IS	100-140	-	NA
33	Black tar	>200	NA	NA	NA	NA	NA	IS	100-140	-	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
34	Black tar	>100	NA	NA	NA	NA	NA	IS	100-140	-	NA
35	Black tar	>300	NA	NA	NA	NA	NA	IS	100-140	-	NA
36	Black tar	>300	NA	NA	NA	NA	NA	IS	100-140	-	NA
37	Black tar	>200	NA	NA	NA	NA	NA	IS	100-140	-	NA
38	Black tar	>300	NA	NA	NA	NA	NA	IS	100-140	-	NA
39	Black tar	>300	NA	NA	NA	NA	NA	IS	100-140	-	NA
40	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
41	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
42	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
43	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
44	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
45	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
46	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
47	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
48	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
49	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
50	Black tar	300	NA	NA	NA	NA	NA	NA	100-140	-	NA
51	Brown sand	0	-	7	-	-	-	IS	>200	-	char
52	Rose-colored sandy powder	0	-	7	-	-	-	IS	Nonflam.	-	char
53	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	>200	-	NA
54	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	>200	-	NA
55	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	>200	-	char
56	Tan sandy powder	0	NA	NA	NA	NA	NA	NA	>200	-	char
57	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	>200	NA	NA
58	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	>200	NA	NA
59	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	>200	NA	NA
60	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
61	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
62	Rose-colored sandy powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
63	Tan sandy powder	0	-	7	-	-	-	IS	>200	-	char
64	Rose-colored sandy powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
65	Tan sandy powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
66	Tan sandy powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
67	Tan sandy powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
68	Tan sandy powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
69	Rose-colored sandy powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
70	Tan sandy powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
71	Tan sandy powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
72	Black tar	1000	NA	NA	NA	NA	NA	NA	100-140	-	NA
73	Black tar chips	700	NA	NA	NA	NA	NA	NA	140-200	-	char
74	Tan sandy powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
75	Black tar	300	NA	NA	NA	NA	NA	NA	140-200	-	NA
76	Tan sandy powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
77	Black tar	600	NA	NA	NA	NA	NA	NA	100-140	-	NA
78	Tan sandy powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
79	Tan sandy powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
80	Light brown sand	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
81	Light brown sand	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
82	Gray powder	0	-	7	-	NA	-	SS/susp.	-	NA	-
83	Light brown sand	1.6	-	7	-	NA	-	SS/sinks	-	NA	No soot
84	Light brown sugary powder	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
85	Light brown sugary powder	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
86	Chunky milky water	>300	-	7	-	NA	-	IS/sinks	100-140	NA	No soot
87	pinkish/tan sand	1.6	-	7	-	NA	-	SS/sinks	-	NA	No soot
88	Light brown sand	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
89	Rose-colored sandy powder	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
90	Thick orange oil	>2000	-	7	-	NA	-	IS/floats	100-140	-	soot
91	Tan sandy powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
92	Fine off-white powder	10.5	NA	7	NA	NA	NA	IS/sinks	>200	-	inert
93	Fine off-white powder	10.5	NA	7	NA	NA	NA	IS/sinks	>200	-	inert
94	Black tar	>800	NA	NA	NA	NA	NA	NA	100-140	-	NA
95	Damp tan sand	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
96	Fine gray powder	0	-	7	-	NA	-	SS/susp.	-	NA	-
97	Fine off-white powder	0	-	7	-	NA	-	SS/susp.	-	NA	-
98	Pink sandy powder										
99	Tan sandy powder	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
100	Damp tan sand	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
101	Light brown caramel	>150	-	NA	NA	NA	NA	IS	-	-	soot

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
102	Amber gel	>2000	NA	7	NA	NA	NA	IS/sinks	100-140	-	No soot
103	Amber gel	25	NA	7	NA	NA	NA	IS/sinks	100-140	-	No soot
104	Damp tan sand	1.6	-	7	-	NA	-	SS/sinks	-	NA	inert
105	Black tar	>400	NA	NA	NA	NA	NA	NA	100-140	-	NA
106	Reddish-brown soil debris	1.5	NA	7	-	NA	-	SS/sinks	-	-	-
107	Amber gel	25	NA	7	NA	NA	NA	IS/sinks	100-140	-	No soot
108	White paint	0	-	NA	NA	NA	NA	IS/sinks	100-140	-	soot
109	Fine off-white powder	10.5	NA	7	NA	NA	NA	IS/sinks	>200	-	inert
110	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
111	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
112	Rose-colored powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
113	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
114	Rose-colored powder	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
115	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
116	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
117	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
118	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
119	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
120	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
121	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
122	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
123	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
124	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
125	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
126	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
127	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
128	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
129	Black tar	100	NA	NA	NA	NA	NA	NA	140-200	NA	NA
130	Black tar	200	NA	NA	NA	NA	NA	NA	100-140	NA	NA
131	Black tar	1000	NA	NA	NA	NA	NA	NA	100-140	NA	NA
132	Black tar	1000	NA	NA	NA	NA	NA	NA	140-200	NA	NA
133	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
134	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
135											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
136	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
137	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
138	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
139	Damp tan sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
140	Rose-colored powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
141	Damp tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
142	Rose-colored powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
143	Rose-colored powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
144	Whitish/brown solid paste	0	NA	9	-	-	-	Soluble	NA	Yellow	Inorg.
145	Tan crystals	0	NA	5	-	NA	NA	SS	140-200	-	char
146	Damp tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
147	Damp tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
148	Damp tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
149	Rose-colored powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
150	Light tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
151	Light tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
152	Light tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
153	Light tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
154	Light tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
155	Pink sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
156	Off-white sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
157	Dark brown sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
158	Off-white sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
159	pink and tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
160	Pink sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
161	Tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
162	Brown sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
163	Pink sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
164	Tan sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
165	Pink sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
166	Brown sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
167	Brown sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
168	Off-white sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
169	Pink sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
170	Off-white sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
171	Pink sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
172	Empty	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
173	Off-white gel	>200	NA	7	-	NA	-	IS/floats	140-200	-	soot
174											
175											
176											
177											
178											
179											
180											
181											
182	Pink sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
183	Brown sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
184											
185											
186											
187											
188											
189											
190	Pink Sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
191											
192											
193											
194											
195											
196											
197											
198											
199											
200	Off-white sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
201	Coffee-colored water	0	+	7	NA	NA	-	Sol.	>200	-	clean
202											
203											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
204											
205											
206											
207											
208											
209											
210											
211	Rose-colored sand/water	0	+/+	7/NA	NA	NA	NA	S/IS	>200	-	No soot
212	Rose-colored sand/water	0	+/+	7/NA	NA	NA	NA	S/IS	>200	-	No soot
213											
214											
215	Rose-colored sand/water	0	+/+	7/NA	NA	NA	NA	S/IS	>200	-	No soot
216											
217											
218											
219											
220											
221											
222											
223	Rose-colored sand	0	+/+	7/NA	NA	NA	NA	S/IS	>200	-	No soot
224											
225											
226											
227											
228											
229											
230											
231											
232	Off-white sand/water	0	+/+	7/NA	NA	NA	NA	S/IS	>200	-	No soot
233											
234											
235											
236											
237											



**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
238											
239											
240											
241											
242											
243											
244											
245											
246											
247											
248											
249											
250											
251											
252											
253											
254											
255	Off-white sand/water	0	+/+	7/NA	NA	NA	NA	S/IS	>200	-	No soot
256											
257											
258											
259											
260											
261											
262											
263											
264											
265											
266											
267											
268											
269											
270											
271											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
272											
273											
274											
275											
276											
277											
278											
279											
280											
281											
282											
283											
284											
285											
286											
287											
288											
289											
290											
291											
292											
293											
294											
295											
296											
297											
298											
299											
300	Tan sand	1.1	+	NA	NA	NA	NA	IS	NA	NA	NA
301											
302	Milky water/sludge	>900	-/-	7/NA	-/-	NA	-/-	Emul.	<100	-/-	char
303											
304											
305											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
306	Fine gray powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
307											
308											
309											
310											
311	Fine gray powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
312											
313											
314											
315	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
316											
317											
318											
319											
320											
321	water/off-white sand	0	+	7	NA	NA	NA	NA	NA	NA	NA
322	Clear water/white sludge	>600	-	NA	NA	NA	NA	IS	100-140	-/-	No/char
323	Milky water/white gel	>900	+/+	9/NA	-/-	NA	-/-	Emul.	>200	-/-	No char
324	Black tar	>100	NA	NA	NA	NA	NA	NA	NA	-	NA
325	Clear water/white sludge	>900	-	12	NA	NA	NA	IS	100-140	-/-	No/char
326	Clear water/white sludge	>900	-	12	NA	NA	NA	IS	100-140	-/-	No/char
327	Black tar	>200	NA	NA	NA	NA	NA	NA	100-140	-	NA
328	Black tar	>200	NA	NA	NA	NA	NA	NA	100-140	-	NA
329	Black tar	>200	NA	NA	NA	NA	NA	NA	100-140	-	NA
330	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
331	Gray gravel	0	NA	7	NA	NA	NA	IS	>200	-	No char
332	Black tar	200	NA	NA	NA	NA	NA	NA	100-140	-	NA
333	Black tar	300	NA	NA	NA	NA	NA	NA	100-140	-	NA
334	Black tar	300	NA	NA	NA	NA	NA	NA	100-140	-	NA
335	Black tar	200	NA	NA	NA	NA	NA	NA	100-140	-	NA
336	Black tar	500	NA	NA	NA	NA	NA	NA	100-140	-	NA
337	Black tar	200	NA	NA	NA	NA	NA	NA	100-140	-	NA
338	liquid/sludge	1200	-/-	12	-/-	-/-	-/-	Emul/IS	100-140	-/-	Char
339	Black tar	300	NA	NA	NA	NA	NA	NA	100-140	-	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

<b>Sample Number</b>	<b>Description</b>	<b>PID FID</b>	<b>Watesmo</b>	<b>pH</b>	<b>Sulf.</b>	<b>Cyan.</b>	<b>Oxid.</b>	<b>Water Sol/React</b>	<b>Flamm.</b>	<b>Bielstien</b>	<b>Char</b>
340	Black tar	100	NA	NA	NA	NA	NA	NA	140-200	-	NA
341	Black tar	200	NA	NA	NA	NA	NA	NA	100-140	-	NA
342	liquid/sludge	1000	-/-	12	-/-	-/-	-/-	Emul/IS	100-140	-	NA
343											
344	Black tar	200	NA	NA	NA	NA	NA	NA	100-140	-	NA
345	Black tar	200	NA	NA	NA	NA	NA	NA	100-140	-	NA
346	Black tar	400	NA	NA	NA	NA	NA	NA	100-140	-	NA
347	Black tar	500	NA	NA	NA	NA	NA	NA	100-140	-	NA
348	Black tar	500	NA	NA	NA	NA	NA	NA	100-140	-	NA
349											
350											
351											
352											
353											
354											
355											
356											
357											
358											
359											
360											
361	Black tar	500	NA	NA	NA	NA	NA	NA	100-140	-	NA
362	Black tar	600	NA	NA	NA	NA	NA	NA	100-140	-	NA
363	Black tar	300	NA	NA	NA	NA	NA	NA	100-140	-	NA
364	Black tar	400	NA	NA	NA	NA	NA	NA	100-140	-	NA
365	Black tar	500	NA	NA	NA	NA	NA	NA	100-140	-	NA
366											
367											
368											
369											
370											
371											
372											
373											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
374											
375											
376											
377											
378											
379	White chunks	0	-	8	NA	-	NA	IS	Nonflam.	NA	No char
380											
381											
382											
383											
384											
385											
386											
387											
388											
389											
390											
391											
392											
393	Tan sand	0	+	8	NA	NA	NA	NA	Nonflam.	-	NA
394											
395											
396											
397											
398											
399											
400											
401											
402											
403											
404											
405											
406											
407	Rose-colored sand	0	NA	NA	NA	NA	NA	NA	NA	NA	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
408											
409											
410											
411											
412											
413											
414											
415											
416											
417											
418											
419											
420											
421											
422											
423											
424											
425											
426											
427											
428											
429											
430											
431											
432											
433											
434											
435											
436											
437											
438											
439											
440											
441											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
442											
443											
444											
445	Black tar	>400	NA	NA	NA	NA	NA	NA	100-140	-	NA
446	Hard black tar	2.4	NA	NA	NA	NA	NA	IS	140-200	-	soot
447											
448											
449	Black tar	>800	NA	NA	NA	NA	NA	NA	100-140	-	NA
450	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
451											
452	Red solid/black tar	0	NA	7	NA	NA	NA	IS/IS	!40-200	+/+	NA
453											
454											
455											
456											
457											
458											
459											
460											
461											
462											
463											
464											
465											
466											
467											
468											
469											
470											
471											
472											
473											
474											
475											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
476											
477											
478											
479											
480											
481											
482											
483											
484											
485											
486											
487											
488											
489											
490											
491	Tan paste	0	+	7	-	NA	-	Emul.	>200	-	No soot
492											
493											
494											
495											
496	Pink paste	0	+	7	-	NA	-	Emul.	>200	-	No soot
497											
498	Light gray flakes	0	NA	7	-	NA	-	IS	>200	+	Residue
499	Cloudy water/gel	0	+	7	-	NA	-	Sol./IS	>200	-/-	Clean/soot
500	Gray metallic solid	10	NA	5	-	NA	-	IS	140-200	-	soot
501	Green-purple gel	>2000	NA	NA	NA	NA	NA	IS	140-200	+	Soot
502	Black tar	>300	NA	NA	NA	NA	NA	NA	100-140	-	NA
503											
504	White paint	>400	NA	7	NA	NA	NA	IS	140-200	+	soot
505	Solid black tar	0	NA	NA	NA	NA	NA	NA	140-200	-	soot
506	Brownish-red paint	0	NA	7	NA	NA	NA	IS	140-200	-	soot
507	White caulk	>500	NA	7	NA	NA	NA	IS	100-140	+	soot
508	Soil, debris	0	NA	NA	NA	NA	NA	NA	140-200	-	NA
509											



**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
510											
511											
512											
513											
514											
515											
516											
517	Brown urethane foam	0	NA	7	NA	-	NA	IS	140-200	-	soot
518											
519											
520											
521	Sticky black tar with solids	0	-	10	-	-	-	Sol.	>200	-	char
522											
523	Brown paste	0	+	7	-	NA	-	Sol.	>200	-	char
524											
525											
526											
527	Amber sponge-like crystal	0	-	5	-	-	-	IS	140-200		
528											
529											
530											
531											
532											
533	Brown grease	0	NA	NA	NA	NA	NA	NA	>200	red	NA
534	Brown grease	0	NA	NA	NA	NA	NA	NA	>200	NA	NA
535											
536	Brown grease	0	NA	NA	NA	NA	NA	NA	>200	-	NA
537	Grease	0	NA	NA	NA	NA	NA	NA	>200	-	NA
538											
539	Pasty brown grease	0	NA	NA	NA	NA	NA	NA	>200	red	NA
540											
541	White/yellow liquid	400	+	8	-	-	-	Sol.	Nonflam.	-	residue
542	White/yellow liquid	100	+	8	-	-	-	Sol.	Nonflam.	-	residue
543											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
544											
545	Yellow oil/tan liquid	200	-/+	7/10	-/-	-/-	-/-	Float/Sol.	>200/Non	-/-	char
546											
547											
548											
549	Brown milky water	>200	+	13	-	-	-	Soluble	>200	-	soot
550											
551											
552											
553											
554											
555	Brown oil	>200	-	9	-	NA	-	IS	100-140	-	soot
556											
557											
558											
559											
560											
561											
562											
563	Brown oil	>200	-	NA	NA	NA	NA	IS	100-140	-	soot
564											
565											
566											
567	Oily water/white gel	>300	-/NA	4	-/NA	NA	-/NA	IS	140-200	-	soot
568											
569	Multicolored chunky gel	>600	+	4	-	NA	-	IS	100-140	-	soot
570	Orange goo	1000	-	4	NA	NA	-	Floats	100-140	-	char
571	Brown rubbery chips	500	-	4	NA	NA	-	IS	140-200	-	char
572	Olive brown paint sludge	>300	+	7	-	NA	-	IS	140-200	-	soot
573	Orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
574	Off-white paint with oil	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
575	White paint with oil on top	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
576	Yellow paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
577	Dark brown oil	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
578	Red paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
579	Blue paint with oil on top	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
580	Orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
581	White paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
582	Dried white paint	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
583	Off-white paint and oil on top	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
584	Red wood paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
585	Tan paint with oil on top	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
586	Tan paint with oil on top	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
587	Tannish-pink paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
588	Dried yellow paint	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
589	White paint with oil on top	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
590	Gray paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
591	Orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
592	Dark brown paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
593	Pinkish white paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
594	Blue paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
595	Green paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
596	Tan paint with oil on top	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
597	Yellow paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
598	Yellow paint and oil	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
599	Green paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
600											
601											
602											
603											
604											
605											
606	Green paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
607											
608											
609											
610											
611											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
612											
613	Greenish-blue paint	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
614											
615											
616											
617											
618											
619											
620											
621											
622											
623											
624											
625											
626											
627											
628											
629											
630											
631											
632											
633											
634											
635											
636											
637											
638	Green paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
639											
640											
641											
642											
643	Green paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
644											
645											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
646											
647											
648											
649											
650											
651	Powdery blue paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
652											
653											
654											
655											
656	Dry yellow paint	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
657	Blue paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
658											
659											
660											
661											
662											
663											
664	Orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
665											
666											
667											
668											
669											
670											
671											
672											
673											
674											
675											
676	Amber green crystals	14	-	7	-	-	-	IS	140-200	Slight green	char
677	Clear yellow gel	>20	-	7	NA	NA	NA	IS	140-200	-	soot
678	Gray metallic solid with oil	>1500	NA	7	-	NA	-	IS	140-200	-	soot
679	Solid caramel paint residue	>50	NA	7	-	NA	-	IS	140-200	-	soot

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
680											
681											
682	Brown chunks	0	-	6	-	-	-	IS	140-200	-	char
683	Dry tan chunks	0	-	6	NA	NA	NA	IS	>200	-	char
684	Oily water	0	+	7	NA	NA	NA	NA	>200	-	NA
685	Dry tan chunks	800	-	4	NA	NA	NA	IS	140-200	-	char
686											
687											
688	Dry tan/silver chunks	0	-	6	NA	NA	NA	IS	>200	-	char
689											
690	Amber resin beads	0	-	6	NA	NA	NA	IS	>200	-	char
691											
692											
693	Red waxy stuff	0	-	6	NA	NA	NA	IS	>200	green	char
694											
695	Brown oil/water	0	-/+	NA/7	-	NA	-	IS/sol.	140-200	-	clean
696											
697	Amber chunks	1000	-	NA	NA	NA	NA	IS	100-140	-	char
698	Yellow/tan dry paint	2000	-	5	NA	NA	NA	IS	100-140	-	char
699											
700	White/tan crumbly chunks	0	-	6	NA	NA	NA	IS	>200	-	char
701	White/tan crumbly chunks	2000	-	6	NA	NA	NA	IS	140-200	-	char
702	Red paint	200	-	10	-	-	-	Soluble	100-140	-	char
703	Silver/amber/green chunks	2000	-	NA	NA	NA	NA	IS	140-200	-	char
704	Oily amber liquid with chunks	1500	-	4	NA	NA	NA	Floats	100-140	NA	NA
705	Oily amber liquid with chunks	300	-	NA	NA	NA	NA	Floats	100-140	NA	char
706											
707	Rubbery amber chunks	2000	NA	NA	NA	NA	NA	IS	140-200	NA	char
708											
709	White thick paste	100	-	7	NA	NA	NA	IS	140-200	-	NA
710											
711											
712											
713	Green chunks	300	-	NA	NA	NA	NA	IS	>200	green	char

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
714											
715	Dry brown chunks	100	NA	NA	NA	NA	NA	IS	>200	-	char
716	Pasty white goo	0	-	8	-	NA	-	Soluble	>200	-	char
717											
718	Silver/brown chunks	0	-	NA	NA	NA	NA	IS	>200	-	char
719											
720											
721											
722											
723											
724											
725	Red paint	300	-	NA	NA	NA	NA	NA	140-200	-	char
726											
727											
728	Carmel-colored goo	500	-	NA	NA	NA	NA	Floats	100-140	-	char
729											
730											
731	Dry white chunks	0	-	NA	NA	NA	NA	IS	>200	-	char
732	Dry green chunks	0	-	NA	NA	NA	NA	IS	>200	-	char
733	Hard amber chunks	200	-	NA	NA	NA	NA	IS	140-200	-	char
734	Hard amber chunks	0	-	NA	NA	NA	NA	IS	>200	-	char
735	Solid black tar	1000	-	NA	NA	NA	NA	IS	100-140	-	char
736	Hard gray paint flakes	0	-	NA	NA	NA	NA	IS	140-200	-	char
737	Hard amber chunks	2000	-	NA	NA	NA	NA	IS	140-200	-	char
738	Light brown crystals	0	NA	7	-	NA	-	IS	>200	-	soot
739	Multi-colored dry paint	>1500	+	&	NA	NA	NA	IS	100-140	-	soot
740	Multi-colored dry paint	>2000	NA	NA	NA	NA	NA	NA	100-140	-	soot
741	gray-green paint sludge	>1500	NA	5	NA	NA	NA	IS	100-140	-	soot
742											
743											
744	Solid orange goo	0	NA	7	-	NA	-	IS	140-200	-	soot
745	Solid bluegreen chalk	7	NA	NA	NA	NA	NA	NA	100-140	greenblue	clean
746	Amber yellow paint residue	>1400	NA	NA	NA	NA	NA	NA	100-140	-	soot
747	Clear liquid	>300	+	1	-	NA	-	Soluble	100-140	+	clean

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
748	Rusty water/tar	>40	+/NA	7/NA	NA	NA	NA	Sol./IS	140-200	-	NA
749	Multicolored oil and paint sludge	>2000	NA	NA	NA	NA	NA	NA	100-140	-	soot
750											
751	Dry white paint	NA	NA	NA	NA	NA	NA	NA	140-200	green	NA
752											
753	Silver/tan powder	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
754	Silver metallic paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
755	Brown sludge	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
756	Amber gel	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
757	Dry amber gel	NA	NA	NA	NA	NA	NA	NA	NA	green	NA
758	Green paint	NA	NA	NA	NA	NA	NA	NA	NA	green	NA
759	White paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
760	Amber gel	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
761	Blue paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
762	Solid orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
763	Tan paste/yellow liquid	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
764											
765											
766	Dried orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	greenblue	NA
767											
768	Orange and white paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
769	White paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
770											
771											
772											
773	Dry gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
774											
775											
776	Brown/yellow liquid	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
777	Gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
778	Red liquid	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
779	White/amber paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
780	Brown/yellow liquid	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
781	Green paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA



**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
782	Dry gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
783	Green paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
784											
785											
786											
787	Orange and white liquid	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
788	Green liquid	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
789											
790	Dry gray paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
791	Orange and white liquid	NA	NA	NA	NA	NA	NA	NA	100-140	green	NA
792	Brown/white paint	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
793	Brown gel	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
794	Greenish yellow paint	NA	NA	NA	NA	NA	NA	NA	140-200	green-blue	NA
795	Orange liquid	NA	NA	NA	NA	NA	NA	NA	100-140	green	NA
796	Brown gel	NA	NA	NA	NA	NA	NA	NA	100-140	green-orange	NA
797	Grease	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
798	Grease	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
799											
800	Red paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
801	Orange liquid	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
802	Rust-colored liquid	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
803	White gel	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
804	Dry gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
805											
806											
807	Yellow gel	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
808											
809											
810											
811	Orange/amber paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
812	Orange resin	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
813	White paste	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
814	Yellow gel	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
815	Grease	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
816		NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
817	Orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
818	Dry white paint	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
819	Orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
820	Red paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
821											
822											
823											
824											
825											
826											
827											
828											
829											
830											
831											
832											
833											
834											
835											
836											
837											
838											
839											
840											
841											
842											
843											
844											
845											
846											
847											
848											
849											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
850											
851	Amber gel/Dry gray paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
852											
853											
854											
855											
856											
857											
858											
859											
860											
861											
862											
863											
864											
865											
866											
867	Dry blue paint	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
868	Solid orange paint	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
869											
870	Tan/amber paint	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
871											
872											
873											
874											
875											
876											
877											
878											
879	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
880	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
881	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
882	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
883	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

<b>Sample Number</b>	<b>Description</b>	<b>PID FID</b>	<b>Watesmo</b>	<b>pH</b>	<b>Sulf.</b>	<b>Cyan.</b>	<b>Oxid.</b>	<b>Water Sol/React</b>	<b>Flamm.</b>	<b>Bielstien</b>	<b>Char</b>
884	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
885	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
886	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
887	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
888	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
889	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
890	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
891	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
892	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
893	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
894	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
895	Orange resin	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
896	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
897	Off-white powder	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
898	Dense gray powder	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
899	Off-white powder	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
900											
901	Off-white powder	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
902	Solid orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
903	Solid orange paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
904	Solid gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	green	NA
905	Solid black paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
906	Orange liquid	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
907	Black sand	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
908	Off-white powder	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
909	Off-white powder	NA	NA	NA	NA	NA	NA	NA	0	orange	NA
910	Thick orange liquid	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
911											
912	Solid gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
913	Beige solid	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
914	Solid black paint	NA	NA	NA	NA	NA	NA	NA	>200	green	NA
915	Solid white paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
916	Dry black paint	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
917	Orange resin	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
918	Dry red paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
919	Dry white paint	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
920	Dry gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
921	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
922	Dry gray paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
923	Orange resin	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
924	Black paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
925											
926	Off-white powder	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
927	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
928	White crystalline salt	0	NA	10	-	NA	-	SS	>200	-	Clean
929	Off-white powder	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
930	Orange chunky liquid	NA	NA	NA	NA	NA	NA	NA	>200	faint green	NA
931	Dark orange solid with liquid	NA	NA	NA	NA	NA	NA	NA	100-140	blue	NA
932	White ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
933	Yellow gel	NA	NA	NA	NA	NA	NA	NA	140-200	orange	NA
934											
935	Solid yellow paint	NA	NA	NA	NA	NA	NA	NA	140-200	blue	NA
936	Brown solid	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
937	Beige caked substance	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
938	Orange resin	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
939	Off-white powder	NA	NA	NA	NA	NA	NA	NA	>200	orange	NA
940	Off-white liquid/clear liquid	NA	NA	NA	NA	NA	NA	NA	<100	orange	NA
941	Orange resin	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
942	Dirty brown water	0	+	7	NA	NA	-	Soluble	>200	-	clean
943											
944	Black sludge	0	+	NA	NA	NA	NA	NA	>200	-	soot
945											
946	Dry tan paint chips	0	NA	NA	NA	NA	NA	NA	140-200	green	soot
947	Brown oil/rusty water	>17	-/+	8/6	NA	NA	NA	IS/Sol.	100-140	-/-	soot/clean
948	White crystals with rust	0	-	12	-	-	-	Soluble	>200	-	no soot
949	Dark brown sludge	>50	-	7	NA	NA	NA	IS	140-200	-	soot
950	Black tar	0	NA	NA	NA	NA	NA	NA	140-200	-	soot
951	Brown viscous oil	0	-	NA	NA	NA	NA	NA	>200	-	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
952	Brown viscous oil	0	NA	NA	NA	NA	NA	NA	140-200	-	soot
953	Yellow paint/tar	0	NA	NA	NA	NA	NA	NA	>200	-	char
954											
955											
956											
957											
958	Brown oil	0	-	7	-	-	-	Floats	>200	-	char
959	Brown oil	0	-	7	-	-	-	Floats	140-200	-	char
960	Brown grease	0	-	NA	NA	NA	NA	NA	140-200	-	char
961	Black tar	600	-	NA	NA	NA	NA	NA	100-140	-	char
962	Yellow liquid	10	-	5	-	-	-	Floats	140-200	-	char
963											
964	Amber liquid	0	NA	NA	NA	NA	NA	Floats	140-200	-	char
965											
966	Yellow oil/water	0	-/+	-/7	NA	NA	NA	Floats/	140-200	-	char
967	Oil/water	0	-/+	6	NA	NA	-/-	Float/Sol.	140-200	-/-	char
968											
969	Black tar	250	-	NA	NA	NA	NA	NA	100-140	-	char
970	Rubbery amber chunks	2000	NA	NA	NA	NA	NA	NA	100-140	-	char
971	Black oil	0	NA	NA	NA	NA	NA	NA	140-200	-	char
972	Black tar	600	NA	NA	NA	NA	NA	NA	10-140	-	char
973	Green oil/water	0	-/+	6	NA	NA	NA	Float/Sol.	140-200	-	char
974											
975											
976	Black tar	150	NA	NA	NA	NA	NA	NA	140-200	-	NA
977	Brown chunks	0	NA	NA	NA	NA	NA	NA	>200	-	char
978	Silver flakes	150	NA	NA	NA	NA	NA	NA	140-200	-	char
979	Tar/oil residue	0	NA	NA	NA	NA	NA	NA	>200	-	char
980											
981	Oil/water	0	-/+	NA/7	NA	NA	NA	Floats/Sol.	>200	-	clean
982											
983	Black oil/water	0	-/+	NA	NA	NA	NA	NA	>200	-	NA
984	Black oil/water	>40	-/+	NA/7	NA	NA	NA	NA	140-200	-	NA
985	Brown oil/rusty water	0	-/+	NA/7	NA	NA	NA	NA	>200	-	NA

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
986	Soil/damp paint	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
987											
988	Solid black cake	0	NA	8	NA	NA	NA	IS	>200	-	soot
989	Solid black cake	0	NA	8	NA	NA	NA	IS	>200	-	soot
990	Black chunks	0	NA	NA	NA	NA	NA	NA	>200	-	NA
991											
992											
993											
994	Black tar	100	NA	NA	NA	NA	NA	NA	140-200	-	NA
995											
996	Brown water	0	+	6	NA	NA	NA	Soluble	Nonflam.	-	residue
997											
998											
999	Brown rubbery chunks	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
1000	Black granules	0	-	6	NA	NA	NA	IS	>200	-	char
1001	One big black chunk	500	-	NA	NA	NA	NA	NA	NA	NA	NA
1002											
1003	Black liquid	100	+	7	NA	NA	NA	Soluble	Nonflam.	-	char
1004	Silver-colored tar	250	NA	NA	NA	NA	NA	NA	100-140	-	NA
1005											
1006											
1007											
1008	Red jam-like substance	400	-	NA	NA	NA	NA	Floats	100-140	-	NA
1009	Rusty water	0	+	7	NA	NA	NA	Soluble	>200	-	clean
1010	Orange rusty water	>20	+	7	-	NA	-	Soluble	>200	-	clean
1011											
1012	Dark brown water	0	+	7	-	NA	-	Soluble	>200	-	NA
1013	Rusty water	0	+	7	NA	NA	NA	Soluble	>200	-	char
1014											
1015	Light blue clear liquid	0	+	9	-	NA	+	Soluble	100-140	+	Clean
1016	Light brown oil	0	-	NA	NA	NA	NA	IS	140-200	-	NA
1017	Black tar	0	+	6	NA	NA	NA	NA	>200	-	char
1018	Oil/water	0	-/+	NA/6	NA	NA	NA	NA	140-200	-	char
1019											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
1020											
1021											
1022											
1023											
1024											
1025	Dry gray paint	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1026											
1027											
1028											
1029											
1030											
1031											
1032											
1033											
1034											
1035											
1036											
1037	Gray/amber paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
1038											
1039											
1040											
1041											
1042											
1043											
1044											
1045											
1046											
1047											
1048											
1049											
1050											
1051											
1052											
1053	Gray/amber paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA



**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
1054											
1055											
1056											
1057											
1058											
1059											
1060											
1061											
1062											
1063	White/amber paint	NA	NA	NA	NA	NA	NA	NA	100-140	orange	NA
1064											
1065	Black tar	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1066	Dried white paint	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
1067	Dry gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1068	White paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
1069	Gray paint flakes	NA	NA	NA	NA	NA	NA	NA	>200	NA	NA
1070	Dark brown oil	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1071	Amber rubbery resin	NA	NA	NA	NA	NA	NA	NA	140-200	NA	NA
1072	Gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	NA	NA
1073											
1074											
1075	Dried white paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1076	Dried white paint	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
1077	Dry red paint	NA	NA	NA	NA	NA	NA	NA	Nonflam.	NA	NA
1078											
1079	Brown gel	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1080	Dark brown oil	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1081											
1082	Fluorescent red paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1083											
1084											
1085											
1086											
1087											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
1088											
1089											
1090											
1091	Zinc powder	NA	NA	NA	NA	NA	NA	NA	Nonflam.	NA	NA
1092											
1093											
1094	Black paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1095	Gray paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1096	Bright yellow paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1097	Dry tan powder	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
1098	Oil and gray paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1099	Yellow paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
1100	Black paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1101	Black paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1102	Black paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1103	Zinc powder	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1104	White paint residue	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
1105	Clear yellow liquid	NA	+	12	NA	NA	NA	NA	>200	-	NA
1106											
1107	Brown gel	NA	NA	NA	NA	NA	NA	NA	140-200	red	NA
1108	Gray paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1109	Brownish yellow paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1110	Black tar	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1111											
1112	Gray paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1113	Tan paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1114											
1115	Gray paint	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
1116	Dark brown gel	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1117	Hard green paint	NA	NA	NA	NA	NA	NA	NA	140-200	NA	NA
1118	White paint	NA	NA	NA	NA	NA	NA	NA	140-200	NA	NA
1119	Paint oil with no pigment	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
1120	Dark brown oil/yellow paint	NA	NA	NA	NA	NA	NA	NA	100-140	-	NA
1121											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Sample Number	Description	PID FID	Watesmo	pH	Sulf.	Cyan.	Oxid.	Water Sol/React	Flamm.	Bielstien	Char
1122											
1123											
1124											
1125											
1126											
1127											
1128											
1129	White crystals	NA	-	8	NA	NA	NA	IS	>200	NA	char
1130											
1131											
1132											
1133											
1134	Wood oil	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
1135											
1136	Varathane varnish	NA	NA	NA	NA	NA	NA	NA	100-140	NA	NA
1137	Brown paint	NA	NA	NA	NA	NA	NA	NA	140-200	-	NA
1138											
1139	Oil/water	NA	NA	NA	NA	NA	NA	NA	>200	-	NA
1140	Black tar	NA	NA	NA	NA	NA	NA	NA	>200	NA	NA
1141											
1142	Gray chunks	0	-	7	NA	-	-	NA	Nonflam.	-	-
1143											
1144	Yellow oily liquid	0	-	NA	NA	NA	NA	Floats	140-200	-	NA
1145											

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Other
Tin catalyst, silicon rubber
Varnish
Green/red paint
Chared
Dry latex paint
Chlor-n-Oil >500 ppm
Chlor-n-Oil >500 ppm
Same as sample 11
Inorganic, silica
Insoluble in acid
IS in hexane; SS in acid
Some water content
IS in acid, SS in hexane
IS in hexane; SS in acid
No reaction with acid

## HAZARD CATEGORIZATION RESULTS

Other

No reaction with acid

## HAZARD CATEGORIZATION RESULTS

**Other**

zinc dust

## HAZARD CATEGORIZATION RESULTS

Other

IS in acid

## HAZARD CATEGORIZATION RESULTS

## Other

Sodium bicarbonate



**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

[illegible]

## HAZARD CATEGORIZATION RESULTS

Other

## HAZARD CATEGORIZATION RESULTS

Other

## HAZARD CATEGORIZATION RESULTS

**Other**

Very ignitable with lots of soot

## HAZARD CATEGORIZATION RESULTS

**Other**

Zinc dust

Zinc dust

Salt residue

## HAZARD CATEGORIZATION RESULTS

**Other**

## HAZARD CATEGORIZATION RESULTS

Other

## HAZARD CATEGORIZATION RESULTS

**Other**



**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

[illegible]

## HAZARD CATEGORIZATION RESULTS

## Other

Detergent

Chlorinated paint

Chlorinated paint

Soluble in Hexane

IS in hexane

Chlorinated

## HAZARD CATEGORIZATION RESULTS

**Other**

IS in hexane

Lithium

Lithium grease

## HAZARD CATEGORIZATION RESULTS

## Other

Absorbent

Soluble in hexane

Soluble in hexane

## HAZARD CATEGORIZATION RESULTS

Other

## HAZARD CATEGORIZATION RESULTS

Other

## HAZARD CATEGORIZATION RESULTS

**Other**

IS in hexane and acid

## HAZARD CATEGORIZATION RESULTS

## Other

No reaction in acid



**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

Other
Absorbent
IS in hexane
IS in hexane and acid
IS in hexane
IS in hexane and acid
alcohol/acid mix?

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

[illegible]

## HAZARD CATEGORIZATION RESULTS

Other

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

[illegible]

## HAZARD CATEGORIZATION RESULTS

Other

## HAZARD CATEGORIZATION RESULTS

Other

## HAZARD CATEGORIZATION RESULTS

Other

Absorbent

## HAZARD CATEGORIZATION RESULTS

Other

Oil or kerosene

Kerosene?



YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996

Other
SS in hexane
SS in hexane
Absorbent
Water
Roofing tar
Burns like alcohol

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

[illegible]

**YOUNGSTROM LOG HOMES REMOVAL SITE  
BLACKFOOT, IDAHO  
HAZARD CATEGORIZATION RESULTS  
NOVEMBER, 1996**

[illegible]

## HAZARD CATEGORIZATION RESULTS

Other

Lithium

## HAZARD CATEGORIZATION RESULTS

**Other**

Reaction with acid; inorganic salt

Kerosene or hydraulic oil

**APPENDIX G**

**IMMUNOASSAY TEST KIT INFORMATION**

# Pentachlorophenol

## • Intended Use

For detection of pentachlorophenol in water (groundwater, surface water, well water). For soil, crop, and food use refer to specific application bulletins.

For use as SW-846 Method 4010 "Screening for Pentachlorophenol by Immunoassay" see Ohmicron Technical Bulletin #T00094.

## • Principle

The Pentachlorophenol RaPID Assay® applies the principles of enzyme linked immunosorbent assay (ELISA) to the determination of pentachlorophenol. The sample to be tested is added, along with an enzyme conjugate, to a disposable test tube, followed by paramagnetic particles with antibodies specific to pentachlorophenol attached. Both the pentachlorophenol (which may be in the sample) and the enzyme labeled pentachlorophenol (the enzyme conjugate) compete for antibody binding sites on the magnetic particles. At the end of an incubation period, a magnetic field is applied to hold the paramagnetic particles (with pentachlorophenol and labeled pentachlorophenol analog bound to the antibodies on the particles, in proportion to their original concentration) in the tube and allow the unbound reagents to be decanted. After decanting, the particles are washed with Washing Buffer.

The presence of pentachlorophenol is detected by adding the enzyme substrate (hydrogen peroxide) and the chromogen (3,3',5,5'-tetramethylbenzidine). The enzyme-labeled pentachlorophenol analog bound to the pentachlorophenol antibody catalyzes the conversion of the substrate/chromogen mixture to a colored product. After an incubation period, the reaction is stopped and stabilized by the addition of acid. Since the labeled pentachlorophenol (conjugate) was in competition with the unlabeled pentachlorophenol (sample) for the antibody sites, the color developed is inversely proportional to the concentration of pentachlorophenol in the sample.

## • Reagents

**1. Pentachlorophenol Antibody Coupled Paramagnetic Particles**  
The pentachlorophenol antibody (rabbit anti-pentachlorophenol) is covalently bound to paramagnetic particles, which are suspended in buffered saline with preservative and stabilizers.

30 test kit: one 20 mL vial  
100 test kit: one 65 mL vial

**2. Pentachlorophenol Enzyme Conjugate**  
The horseradish peroxidase (HRP) labeled pentachlorophenol analog is diluted in buffered saline with preservative and stabilizers.

30 test kit: one 10 mL vial  
100 test kit: one 35 mL vial

**3. Pentachlorophenol Standards**  
Three concentrations (0.1, 2.0, 10.0 ppb) of pentachlorophenol standards in buffered saline with preservative and stabilizers are supplied. Each vial contains 2.0 mL.

### 4. Control

A concentration (approximately 1 ppb) of pentachlorophenol in buffered saline with preservative and stabilizers. A 2.0 mL volume is supplied in one vial.

### 5. Diluent/Zero Standard

Buffered saline containing preservative and stabilizers without any detectable pentachlorophenol.

30 test kit: one 10 mL vial  
100 test kit: one 35 mL vial

### 6. Color Solution

A solution of hydrogen peroxide and 3,3',5,5'-tetramethylbenzidine in an organic base.

30 test kit: one 20 mL vial  
100 test kit: one 65 mL vial

### 7. Stopping Solution

A solution of sulfuric acid (0.5%).

30 test kit: one 20 mL vial  
100 test kit: one 60 mL vial

### 8. Washing Buffer

Buffered saline containing preservatives and stabilizers.

30 test kit: one 70 mL vial  
100 test kit: one 250 mL vial

## 9. Test Tubes

Polystyrene tubes (36) are packaged in a box.

30 test kit: one 36 tube box  
100 test kit: three 36 tube boxes

## • Reagent Storage and Stability

Store all reagents at 2-8°C. Do not freeze. Reagents may be used until the expiration date on the box. *The test tubes require no special storage condition and may be stored separately from the reagents to conserve refrigerator space.*

Consult state, local and federal regulations for proper disposal of all reagents.

## • Materials Required but Not Provided

In addition to the reagents provided, the following items are essential for the performance of the test:

Pipets\* Precision pipets capable of delivering 200, 250 and 500 µL and a 1.0 mL repeating pipet.

Vortex Mixer\* Thermolyne Maxi Mix, Scientific Industries Vortex Genie, or equivalent

Magnetic Separation Rack\*

RPA-1™ RaPID Analyzer\* or equivalent photometer capable of readings at 450 nm

\* These items are available from Ohmicron.

## • Sample Information

This procedure is recommended for use with water samples. Other samples may require modifications to the procedure and should be thoroughly validated.

Samples containing gross particulate matter should be filtered (e.g. 0.2 µm Anotop™ 25 Plus, Whatman, Inc.) to remove particles.

Samples which have been preserved with monochloroacetic acid or other acids, should be neutralized with strong base e.g. 6N NaOH, prior to assay.

If the pentachlorophenol concentration of a sample exceeds 10 ppb, the sample is subject to repeat testing using a diluted sample. A ten-fold or greater dilution of the sample is recommended with an appropriate amount of Diluent/Zero Standard or Sample Diluent. For example, in a separate test tube make a ten-fold dilution by adding 100 µL of the sample to 900 µL of Diluent/Zero Standard. Mix thoroughly before assaying. Perform the assay according to the Assay Procedure and obtain final results by multiplying the value obtained by the dilution factor e.g. 10.

The presence of the following substances up to 250 ppm were found to have no significant effect on Pentachlorophenol RaPID Assay results: calcium, copper, manganese, magnesium, mercury, nickel, nitrate, phosphate, sulfite, thiosulfate and zinc. In addition, sodium chloride up to 0.85 M, sulfate to 10,000 ppm, iron to 50 ppm and humic acid to 10 ppm, showed no significant effect on results.

## • Reagent Preparation

All reagents must be allowed to come to room temperature and the antibody coupled paramagnetic particles should be mixed thoroughly before use.

## • Procedural Notes and Precautions

As with all immunoassays, a consistent technique is the key to optimal performance. To obtain the greatest precision, be sure to treat each tube in an identical manner.



Add reagents directly to the bottom of the tube while avoiding contact between the reagents and the pipet tip. This will help assure consistent quantities of reagent in the test mixture.

Avoid cross-contaminations and carryover of reagents by using clean pipets for each sample addition and by avoiding contact between reagent droplets on the tubes and pipet tips.

Avoid foam formation during vortexing.

The magnetic separation rack consists of two parts: an upper rack which will securely hold the test tubes and a lower separator which contains the magnets used to attract the antibody coupled paramagnetic particles. During incubations the upper rack is removed from the lower separator so that the paramagnetic particles remain suspended during the incubation. For separation steps, the rack and the separator are combined to pull the paramagnetic particles to the sides of the tubes.

To obtain optimum assay precision, it is important to perform the separation steps carefully and consistently. Decant the rack by slowly inverting away from the operator using a smooth turning action so the liquid flows consistently along only one side of the test tube. While still inverted, place the rack on an absorbent pad and allow to drain. Lifting the rack and replacing gently onto the pad several times will ensure complete removal of the liquid from the rim of the tube (technique is demonstrated on training video, available from Ohmicron).

Mix the antibody coupled paramagnetic particles just prior to pipetting.

Do not use any reagents beyond their stated shelf life.

Avoid contact of Stopping Solution (sulfuric acid) with skin and mucous membranes. If this reagent comes in contact with skin, wash with water.

## • Limitations

The Pentachlorophenol RaPID Assay will detect pentachlorophenol and related compounds to different degrees. Refer to specificity table for data on several of the organochlorines. The Pentachlorophenol RaPID Assay kit provides screening results. As with any analytical technique (GC, HPLC, etc...) positive results requiring some action should be confirmed by an alternative method.

The total time required for pipetting the magnetic particles should be kept to two (2) minutes or less, therefore the total number of tubes that can be assayed in a run should be adjusted accordingly.

## • Quality Control

A control solution at approximately 1 ppb of pentachlorophenol is provided with the Pentachlorophenol RaPID Assay kit. It is recommended that it be included in every run and treated in the same manner as unknown samples. Acceptable limits should be established by each laboratory.

## • Assay Procedure

Read Reagent Preparation, Procedural Notes and Precautions before proceeding.

1. Label test tubes for standards, control, and samples.

Tube Number	Contents of Tube
1,2	Diluent/Zero Standard, 0 ppb
3,4	Standard 1, 0.1 ppb
5,6	Standard 2, 2.0 ppb
7,8	Standard 3, 10.0 ppb
9	Control
10	Sample 1
11	Sample 2
12	Sample 3

2. Add 200  $\mu$ L of the appropriate standard, control, or sample.
3. Add 250  $\mu$ L of Pentachlorophenol Enzyme Conjugate to each tube.
4. Mix the Pentachlorophenol Antibody Coupled Paramagnetic Particles thoroughly and add 500  $\mu$ L to each tube.
5. Vortex for 1 to 2 seconds minimizing foaming.
6. Incubate for 30 minutes at room temperature.
7. Separate in the Magnetic Separation Rack for two (2) minutes.

8. Decant and gently blot all tubes briefly in a consistent manner.
9. Add 1 mL of Washing Buffer to each tube and allow them to remain in the magnetic separation unit for two (2) minutes.
10. Decant and gently blot all tubes briefly in a consistent manner.
11. Repeat Steps 9 and 10 an additional time.
12. Remove the rack from the separator and add 500  $\mu$ L of Color Solution to each tube.
13. Vortex for 1 to 2 seconds minimizing foaming.
14. Incubate for 20 minutes at room temperature.
15. Add 500  $\mu$ L of Stopping Solution to each tube.
16. Add 1 mL Washing Buffer to a clean test tube. Use as blank in Step 17.
17. Read results at 450 nm within 15 minutes after adding the Stopping Solution.

## • Results

### Manual Calculations

1. Calculate the mean absorbance value for each of the standards.
2. Calculate the %B/Bo for each standard by dividing the mean absorbance value for the standard by the mean absorbance value for the Diluent/Zero Standard.
3. Construct a standard curve by plotting the %B/Bo for each standard on vertical logit (Y) axis versus the corresponding pentachlorophenol concentration on horizontal logarithmic (X) axis on the graph paper provided.
4. %B/Bo for controls and samples will then yield levels in ppb of pentachlorophenol by interpolation using the standard curve.  
(Contact Ohmicron for detailed application information on specific photometers.)

### RPA-I RaPID Analyzer

Using the RPA-I RaPID Analyzer, calibration curves can be automatically calculated and stored. Refer to the RPA-I operating manual for detailed instructions. To obtain results from the Pentachlorophenol RaPID Assay on the RPA-I the following parameter settings are recommended:

Data Reduct	: Lin. Regression
Xformat	: Ln/LogitB
Read Mode	: Absorbance
Wavelength	: 450 nm
Units	: PPB

# Rgt Blk	: 0
Calibrators:	
# of Cals	: 4
# of Reps	: 2

### Concentrations:

#1:	0.00	PPB
#2:	0.10	PPB
#3:	2.00	PPB
#4:	10.00	PPB

Range	: 0.06 - 10.00
Correlation	: 0.990
Rep. %CV	: 10%

## • Expected Results

No interferences were observed in a study conducted on approximately 400 water samples from locations across the U.S. using the Pentachlorophenol RaPID Assay. The Pentachlorophenol RaPID Assay was shown to correlate well against EPA Method 625 (GC/MS) in a study with 20 water samples ( $r = 0.980$ ).

## • Performance Data

### Precision

The following results were obtained:

Control	1	2	3	4
Replicates	5	5	5	5
Days	5	5	5	5
n	25	25	25	25
Mean (ppb)	0.51	1.67	3.16	8.63
% CV (within assay)	12.5	8.8	7.7	6.7
% CV (between assay)	11.4	8.6	1.8	3.2

### Sensitivity

The Pentachlorophenol RaPID Assay has an estimated minimum detectable concentration, based on a 90% B/Bo of 60 ppt.

## Recovery

Four (4) samples, including a municipal water source, drinking water from a local well, and samples from a local pond and a small creek were spiked with various levels of pentachlorophenol and then assayed using the Pentachlorophenol RaPID Assay. The following results were obtained:

Amount of Pentachlorophenol Added (ppb)	Recovery		
	Mean (ppb)	S.D. (ppb)	%
0.50	0.48	0.09	98
1.50	1.63	0.17	108
3.00	3.34	0.29	111
8.00	8.43	0.71	105
Average			105

## Specificity

The cross-reactivity of the Pentachlorophenol RaPID Assay for various organochlorine compounds can be expressed as the least detectable dose (LDD) which is estimated at 90% B/Bo, or as the dose required to displace 50% (50% B/Bo).

Compound	LDD (ppb)	50% B/Bo (ppb)
Pentachlorophenol	0.06	2.20
2,3,5,6-Tetrachlorophenol	0.21	4.06
2,3,4,6-Tetrachlorophenol	0.81	14.6
2,3,5-Trichlorophenol	1.52	119
2,3,6-Trichlorophenol	2.44	62.9
Tetrachlorohydroquinone	8.70	148
2,4,6-Trichlorophenol	15.1	463
2,4,5-Trichlorophenol	21.5	574
2,3,4-Trichlorophenol	53.2	1730
2,5-Dichlorophenol	62.9	7830
2,6-Dichlorophenol	268	5990
2,3-Dichlorophenol	811	> 10,000
2,4-Dichlorophenol	887	> 10,000
3,5-Dichlorophenol	1870	> 10,000
Hexachlorobenzene	1560	> 10,000
Hexachlorocyclohexane	5790	> 10,000

The following compounds demonstrated no reactivity in the Pentachlorophenol RaPID Assay at concentrations up to 10 ppm: alachlor, aldicarb, benomyl, butachlor, butylate, captan, carbaryl, carbendazim, carbofuran, 4-chlorophenol, 3,4-dichlorophenol, chlorothaleni, 2,4-D, 1,3-dichloropropene, dinoseb, MCPA, metalaxyl, metolachlor, metribuzin, pentachlorobenzene, pentachloronitrobenzene, picloram, propachlor, terbufos, thiabendazole, and thiophanate-methyl.

## • Assistance

For ordering or technical assistance contact:  
Ohmicron Environmental Diagnostics  
Sales Department  
Newtown, Pennsylvania 18940  
(800)544-8881 \* Fax(215)860-5213

## • Availability

### Ohmicron

Pentachlorophenol RaPID Assay  
30 Test Kit  
100 Test Kit  
Pentachlorophenol Proficiency Samples  
Pentachlorophenol Sample Diluent  
Soil Collection Kit  
PCP Sample Extraction Kit

200134

R101805





# Pentachlorophenol Sample Extraction Kit

## • Intended Use

For use in conjunction with RaPID Prep™ Soil Collection Kit and the Pentachlorophenol RaPID Assay® Kit for determination of pentachlorophenol in soil.

For use as SW-846 Method 4010 "Screening for Pentachlorophenol by Immunoassay" see Ohmicron Bulletin #T00094.

## • Principle

Pentachlorophenol is a broad spectrum pesticide used in the wood and paper industry as a fungicide to protect against fungal rot and as an insecticide for the control of termites and wood boring insects. Primary applications in this industry include preservation of utility poles, railway ties, marine pilings, and fence posts and as a slime reducer in paper and pulp milling. Pentachlorophenol is also used as a general herbicide, especially as a pre-harvest defoliant in cotton farming. It is the most widely used chlorophenol pesticide and it has been detected at hazardous waste sites in the United States. Pentachlorophenol residues may contaminate soil, wells, groundwater and surface water due to spills, drift and runoff.

The degradation of pentachlorophenol under atmospheric conditions occurs by photolysis. In aquatic systems, photolysis and biodegradation are believed to be the dominant processes. In soil, pentachlorophenol biodegrades by becoming rapidly metabolized by acclimated microorganisms. Pentachlorophenol degradation occurs most rapidly in soils of high organic and moisture content with temperatures favorable to microbial activity.

The reagents contained in the RaPID Prep Pentachlorophenol Sample Extraction Kit have been optimized for fast, efficient removal of pentachlorophenol from soil and convenient preparation of the sample for immunoassay at levels of interest to the investigator. The system allows for reliable, convenient and cost effective determinations at the field testing or remediation site.

## • Description of Contents

1. Pentachlorophenol Extraction Solution  
Sodium Hydroxide in 75% methanol.  
per kit: 20 bottles containing 20 mL each
2. Pentachlorophenol Extract Diluent  
Buffered saline containing preservatives and stabilizers without any detectable pentachlorophenol.  
per kit: 20 vials containing 25 mL each
3. Fifty microliter precision pipet.
4. Pipet tips  
per kit: 20 disposable plastic tips
5. Chain of custody container labels.  
per kit: 30 labels for diluent vials

## • Reagent Storage and Stability

Store all reagents and components in a dry well ventilated area at 2-30°C. Reagents may be used until the expiration date shown on the vials.

Consult local, state and federal regulations for proper disposal of all reagents.

## • Materials Not Provided

In addition to the materials provided, the following items will be necessary for the performance of the procedure:

- RaPID Prep Soil Collection Kit
- stopwatch or clock with second hand
- permanent marking pen
- protective gloves
- digital balance (optional, available from Ohmicron)

## • Sample Information

This kit was validated for use with soil samples. Other types of samples matrices and solid wastes may require different procedures to extract pentachlorophenol.

## • Procedural Notes and Precautions

Do not use any reagent beyond its stated shelf life.

Avoid contact of extraction solution (methanol/sodium hydroxide) with skin and mucous membranes. If this reagent comes in contact with skin wash with water.

The fifty microliter pipet is considered disposable and should be discarded after the kit reagents are depleted.

## • Limitations

The Pentachlorophenol Sample Extraction Kit when used in conjunction with RaPID Prep Soil Collection Kit and the Pentachlorophenol RaPID Assay will provide screening results. Positive results should be confirmed by a non-immunological method.

## • Extraction/Filtration Procedure

Read the Procedural Notes and Precautions and the RaPID Prep Soil Collection kit package insert before proceeding. Various soil sampling options are presented in the Soil Collection Kit package insert.

1. Write sample information on the labels provided for soil collection device, extract collection vials and Pentachlorophenol Extract Diluent vials. Apply labels to appropriate vessels.
2. **Sampling:** Remove the screw cap from the soil collector and collect soil by volume or weight as follows:
  - **By volume:** With the plunger fully depressed (pushed to the top of the tube), pack soil into the open end of the collection tube. Unscrew the plunger rod from its plunger by turning the handle counter clockwise. Level the soil flush with the top of the collector tube using the plunger rod. Using the base portion of the handle, push the soil sample and the plunger to the bottom.
  - **By weight using digital balance:**
    - Option 1. Remove screw cap. Tare the soil collector with its plunger rod. Collect the soil "By volume", level it off and push the soil and plunger to the bottom of the tube. Reattach plunger rod and weigh the tube containing the soil. Subtract original weight from final weight to determine soil weight. Record the weight of the soil.
    - Option 2. Remove the screw cap and plunger rod from an empty collection tube. Position the plunger at the bottom of the collection tube. Attach the red base piece provided and place the tube in an upright position on the balance and tare weight. Weigh  $10 \pm 0.1$  gram of soil into the tube. Record the soil weight.
3. **Extraction.** Position the soil collection tube containing a soil sample upright in the styrofoam rack and add 20 mL of the appropriate extraction solution. Screw the cap (without filter) on tightly and make sure that the luer cap is secured. Shake vigorously and continuously for at least 60 seconds. Additional shaking may be required to break up large or dry soil aggregates. Position the collection tube upright in the rack and allow the mixture to sit at least five minutes. Longer extraction times may be desirable for some situations.

If batch processing is desired, up to 21 soil samples with added extraction solution can be loaded into the rack inside the Soil

Collection Kit box base, the box lid is put in place and the box is shaken vigorously for at least 60 seconds.



4. **Filtration.** Remove the screw cap and attach the filter cap. Hand tighten until resistance is felt. *Do not overtighten.* Attach the plunger rod to the plunger of the soil collector. Remove the luer cap and invert the soil collector so that the luer cone is positioned over a collection vial. Keep inverted for a few seconds to wet the filter and to allow the filtrate to drip through the filter into the luer cone. Apply slight pressure to the plunger handle. The filtrate will begin to flow more quickly as gentle pressure is continuously applied. Fill the vial with approximately 10 to 20 drops (0.5 to 1 mL). Cap the vial. This amount is sufficient to perform multiple replicate analyses with RaPID Assays kits. The vial will hold up to 5 mL of filtrate if additional extract volume is desired. The filtrate containing Pentachlorophenol is stable when stored in the extract collection vial for one (1) week at room temperature (15 to 30 °C).

#### • Dilution Procedure

Using the pipet provided, transfer 50 µL of the extract directly into a vial of Pentachlorophenol Extract Diluent (25 mL). Mix by inverting several times.

This mixture can now be measured as "sample" according to the package insert of the Pentachlorophenol RaPID Assay.

#### • Calculation of Results

Calculate the pentachlorophenol concentration in soil by multiplying the RaPID Assay result by the factors introduced by the procedure.

$$\text{RaPID Assay result (ppb)} \times \frac{\text{vol. Extractant (mL)}}{\text{wt. of soil (g)}} \times \text{dilution factor}^*$$

$$\text{RaPID Assay result (ppb)} \times \frac{20}{\text{wt of soil (g)}} \times 500^* =$$

concentration of pentachlorophenol in soil (ppb)

EXAMPLE: For a soil sample weighing 10.0 grams giving an assay result of 2.5 ppb:

$$2.5 \text{ ppb} \times \frac{20}{10} \times 500^* =$$

$$2,500 \text{ ppb} = 2.5 \text{ ppm} = \text{concentration of pentachlorophenol in soil}$$

\* NOTE:

$$\text{dilution factor} = \frac{\text{vol. extract (mL)} + \text{vol. diluent (mL)}}{\text{vol. extract (mL)}}$$

$$= \frac{0.05 + 25}{0.05} = 500$$

#### • Range of Detection

When this extraction/dilution procedure is used in conjunction with RaPID Prep Soil Collection Kit and the Pentachlorophenol RaPID Assay kit, the range of detection in soil is 100 ppb to 10 ppm.

For samples with pentachlorophenol concentrations greater than 10 ppm on initial screen, the diluted extract can be further diluted with Pentachlorophenol RaPID Assay kit reagents and retested. An additional 1:10 dilution (50 µL of diluted extract plus 0.5 mL of Diluent/Zero Standard) is recommended. The dilution factor for this solution would be 5000 instead of 500 shown in the example above. The range of detection for pentachlorophenol is thereby extended to 100 ppm.

#### • Expected Results

Due to the large dilution factor used, the accuracy of the final result will depend in part on the care taken in pipeting the extract into the diluent.

Pentachlorophenol recoveries of will vary depending on soil type, retention mechanism, solvent and extraction apparatus used, length of extraction period and levels of potentially interfering substances in the soil.

Three soils of the clay and loam type were fortified with pentachlorophenol to final soil concentrations of 1.0, 1.5 and 5.0 ppm. All soils were then subjected to the above

extraction/dilution procedure. Average recovery of added pentachlorophenol was 70%. Results ranged from 83 to 83%.

Pentachlorophenol recoveries were not effected when the following levels of contaminants were added to the soil prior to the extraction procedure: 100 ppm creosote, 1000 ppm CCA and 10% diesel fuel.

#### • Extraction Time Course

Greater analyte recovery will be achieved if extraction time is extended. Approximately 95% of added pentachlorophenol can be recovered if the soil sample is shaken for 30 minutes.

#### • Performance Data

##### Precision

The overall coefficient of variation (%CV) for pentachlorophenol measurement in soil spiked at 2 ppm using the RaPID Prep components and Pentachlorophenol RaPID Assay is approximately 20%. This represents the amount of variability expected when a homogeneous soil sample undergoes ten replicate collections, extractions and dilutions generating ten immunoassay results from a single run.

Sample Collection Method  
by weight by volume

no. of replicates	10	10
mean assay result (ppm)	1.43	1.47
%CV	26.1	20.3

#### • Correlation

Extracts of Wisconsin loam soil samples fortified with 5, 10 and 50 ppm pentachlorophenol were prepared per the procedure shown above. The extracts were split and measured with the RaPID assay and with an HPLC pentachlorophenol method. The following results were obtained:

Pentachlorophenol spiked into soil (ppm)	RaPID Assay (ppm)	HPLC (ppm)
5	5.5	4.3
10	8.8	8.9
50	47.2	47.4

#### • References

Ohmicron Technical Publications:  
#T00027 - *Pesticides in Soil and Analysis by Immunoassay*  
#T00034 - *Detection of Pentachlorophenol in Soil*

#### • Availability

From Ohmicron

Description	Part Number
Pentachlorophenol Sample Extraction Kit (20 units)	A00128
RaPID Prep Soil Collection Kit (21 units)	A00127
Pentachlorophenol RaPID Assay 100 tube kit	A00111
30 tube kit	A00110

<b>Extraction Kits:</b>	
TYPE I: for extraction of:	A00129
Carbendazim or pentachlorophenol (20 tests per kit)	

Description	Part Number
TYPE II: for extraction of:	A00130
Atrazine, cyanazine, alachlor, metolachlor or 2,4-D (20 tests per kit)	

Portable Digital Balance	A00131
--------------------------	--------

#### • Assistance

For ordering or technical assistance contact:  
Ohmicron Environmental Diagnostics  
Sales Department  
Newtown, Pennsylvania 18940  
(800)544-8881 \* Fax(215)860-5213

Z00210

R101805



**APPENDIX H**

**UNIFORM WASTE MANIFESTS**



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0038 Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.								
3. Generator's Name and Mailing Address		U S EPA REGION X (YOUNG & LOWMEYER) 1200 SIXTH AVE (NW-113) SEATTLE, WA 98101		A. State Manifest Document Number									
4. Generator's Phone (206) 553-1200		5. Transporter 1 Company Name Wills Trucking		B. State Generator's ID									
6. Transporter 1 US EPA ID Number K.H. 0068913409		7. Transporter 2 Company Name		C. State Transporter's ID									
8. Transporter 2 US EPA ID Number		9. Designated Facility Name and Site Address APTUS ROLLINS OPC 11600 NORTH APTUS ROAD ARAGONITE, UT, 84029		D. Transporter's Phone 800-423-8125									
10. US EPA ID Number		11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		E. State Transporter's ID									
12. Containers		13. Total Quantity		F. Facility's Phone									
14. Unit Wt/Vol		15. Waste No.		G. State Facility's ID									
16. No.		17. Type		H. Facility's Phone									
18. WASTE PAINT RELATED MATERIALS		19. 002 DM 003.00 P		I. Waste No.									
20. 3, UN 1263, PG II		21. 043 DM 13.500 P		22. 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		23. 024 DM 084.00 P		24. 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		25. 004 DF 0.0006 P		26. 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 25	



PRINTED ON RECYCLED PAPER  
USING SOY INK

AMERICAN LABELMAKING CO. — CHICAGO, IL 60646

303675-01

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2060-0033, Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		US EPA REGION X YOUNGSTRON LOG HOME 1200 SMTH AVE HW-113 SEATTLE, WA 98101		A. State Manifest Document Number		
4. Generator's Phone (206) 553-1200		6. US EPA ID Number		B. State Generator's ID		
5. Transporter 1 Company Name		WILLS TRUCKING INC. 104D068913409		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (801) 973-9343		
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Transporter's ID		
ENVIROSAFE SERVICES OF IDAHO INC 10.5 MILES NW ON HWY 78 MISSILE BASE RD GRAND VIEW, ID 83264		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		F. Transporter's Phone		
		12. Containers		G. State Facility's ID		
		13. Total Quantity		H. Facility's Phone		
		14. Unit Wt/Vol		I. Waste No.		
a. <input checked="" type="checkbox"/> RQ WASTE ENVIRONMENTALLY HAZARDOUS, SUBSTANCES, SOLID, N.O.S. (D008) 9, UN3077, PG II		001 DT 00.035 Y				
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
11a) 19170005 #171						
15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY CALL 24 HOURS EPA ON DUTY OFFICER AT (206) 553-1200 AND SEE REG #171 Please send copy of CERT OF DESTROY AND SCALE TICKETS TO: LET ENVIRONMENTAL SVCS INC 120 W DAYTON ST C-A-7 EDMONDS, WA 98020						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature		Month Day Year		
CARL KITZ EPA OSC		Carl Kitz		11/12/96		
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year		
Printed/Typed Name		Signature		Month Day Year		
KAREN MYERS		Karen Myers		11/12/96		
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year		
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		





Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0038 Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address		US EPA REGION X YOUNGSTOWN LG HOME 1200 SIXTH AVE HW-113 SEATTLE, WA 98101		A. State Manifest Document Number		
4. Generator's Phone (206) 553-1200		5. Transporter 1 Company Name Wills TRUCKING INC		6. US EPA ID Number IDHD068913409		C. State Transporter's ID
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 800-362-3570		E. State Transporter's ID
9. Designated Facility Name and Site Address ENVIRO SAFE SERVICES OF IDAHO INC 10.5 MILES NW ON HWY 78 MISSILE BASE RD GRANDVIEW, ID 83624		10. US EPA ID Number IDD073114654		F. Transporter's Phone		G. State Facility's ID
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. NON REGULATED SAND AS PER 49 CFR		No. Type				
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information EPA ON DUTY OFFICER @ (206) 553-1200 AND SEE EFG #171 SEND COPY OF CERT OF DISPOSAL TO: CEF ENVIRONMENTAL SVCS 120 W DAYTON STE 4-T EDMONDS WA 98020						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name CARL KITZ EPA OSC		Signature Carl Kitz		Month Day Year 11/12/09		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name William Figueroa		Signature William Figueroa		Month Day Year 11/13/09
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		



Print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. IDD 984.669.1925.4004	Manifest Document No. 1	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address U SEPA REGION X YOUNG ST Rm L66 1200 SIXTH AVE HWY 113 SEATTLE, WA 98101			A. State Manifest Document Number			
4. Generator's Phone (206) 553-1200			B. State Generator's ID			
5. Transporter 1 Company Name Wills Trucking			C. State Transporter's ID			
6. US EPA ID Number 10H0068913409			D. Transporter's Phone 800-423-8185			
7. Transporter 2 Company Name			E. State Transporter's ID			
8. US EPA ID Number			F. Transporter's Phone			
9. Designated Facility Name and Site Address ENVIROSAFE SERVICES OF IDAHO INC 10.5 MILES NW ON HWY 78, MISSILE BASE RD GRANDVIEW, ID 83624			G. State Facility's ID IDD 073114654		H. Facility's Phone (206) 254-1516	
10. US EPA ID Number			I. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
A. X SODIUM HYDROXIDE, SOLID 8, UN1823, PGI			001 DM	00.200 P		
B. X HAZARDOUS WASTE, LIQUID, H.O.S. (D008, oil) 9, NA 3082, PGI			010 DM	00.550 G		D008
C. X RD. ASBESTOS 9, NA 2212, PGI			001 DM	00.500 P		
D. X NON REGULATED GREASE			005 DM	10.000 G		
J. Additional Descriptions for Materials Listed Above 11a) WSID 19170050 #154 11b) WSID 19170050 #171 11c) WSID 19170050 #172 11d) WSID 19170050 #173 11e) WSID 19170050 #174 11f) WSID 19170050 #175 11g) WSID 19170050 #176 11h) WSID 19170050 #177 11i) WSID 19170050 #178 11j) WSID 19170050 #179 11k) WSID 19170050 #180 11l) WSID 19170050 #181 11m) WSID 19170050 #182 11n) WSID 19170050 #183 11o) WSID 19170050 #184 11p) WSID 19170050 #185 11q) WSID 19170050 #186 11r) WSID 19170050 #187 11s) WSID 19170050 #188 11t) WSID 19170050 #189 11u) WSID 19170050 #190 11v) WSID 19170050 #191 11w) WSID 19170050 #192 11x) WSID 19170050 #193 11y) WSID 19170050 #194 11z) WSID 19170050 #195 11aa) WSID 19170050 #196 11ab) WSID 19170050 #197 11ac) WSID 19170050 #198 11ad) WSID 19170050 #199 11ae) WSID 19170050 #200 11af) WSID 19170050 #201 11ag) WSID 19170050 #202 11ah) WSID 19170050 #203 11ai) WSID 19170050 #204 11aj) WSID 19170050 #205 11ak) WSID 19170050 #206 11al) WSID 19170050 #207 11am) WSID 19170050 #208 11an) WSID 19170050 #209 11ao) WSID 19170050 #210 11ap) WSID 19170050 #211 11aq) WSID 19170050 #212 11ar) WSID 19170050 #213 11as) WSID 19170050 #214 11at) WSID 19170050 #215 11au) WSID 19170050 #216 11av) WSID 19170050 #217 11aw) WSID 19170050 #218 11ax) WSID 19170050 #219 11ay) WSID 19170050 #220 11az) WSID 19170050 #221 11ba) WSID 19170050 #222 11bb) WSID 19170050 #223 11bc) WSID 19170050 #224 11bd) WSID 19170050 #225 11be) WSID 19170050 #226 11bf) WSID 19170050 #227 11bg) WSID 19170050 #228 11bh) WSID 19170050 #229 11bi) WSID 19170050 #230 11bj) WSID 19170050 #231 11bk) WSID 19170050 #232 11bl) WSID 19170050 #233 11bm) WSID 19170050 #234 11bn) WSID 19170050 #235 11bo) WSID 19170050 #236 11bp) WSID 19170050 #237 11bq) WSID 19170050 #238 11br) WSID 19170050 #239 11bs) WSID 19170050 #240 11bt) WSID 19170050 #241 11bu) WSID 19170050 #242 11bv) WSID 19170050 #243 11bw) WSID 19170050 #244 11bx) WSID 19170050 #245 11by) WSID 19170050 #246 11bz) WSID 19170050 #247 11ca) WSID 19170050 #248 11cb) WSID 19170050 #249 11cc) WSID 19170050 #250 11cd) WSID 19170050 #251 11ce) WSID 19170050 #252 11cf) WSID 19170050 #253 11cg) WSID 19170050 #254 11ch) WSID 19170050 #255 11ci) WSID 19170050 #256 11cj) WSID 19170050 #257 11ck) WSID 19170050 #258 11cl) WSID 19170050 #259 11cm) WSID 19170050 #260 11cn) WSID 19170050 #261 11co) WSID 19170050 #262 11cp) WSID 19170050 #263 11cq) WSID 19170050 #264 11cr) WSID 19170050 #265 11cs) WSID 19170050 #266 11ct) WSID 19170050 #267 11cu) WSID 19170050 #268 11cv) WSID 19170050 #269 11cw) WSID 19170050 #270 11cx) WSID 19170050 #271 11cy) WSID 19170050 #272 11cz) WSID 19170050 #273 11da) WSID 19170050 #274 11db) WSID 19170050 #275 11dc) WSID 19170050 #276 11dd) WSID 19170050 #277 11de) WSID 19170050 #278 11df) WSID 19170050 #279 11dg) WSID 19170050 #280 11dh) WSID 19170050 #281 11di) WSID 19170050 #282 11dj) WSID 19170050 #283 11dk) WSID 19170050 #284 11dl) WSID 19170050 #285 11dm) WSID 19170050 #286 11dn) WSID 19170050 #287 11do) WSID 19170050 #288 11dp) WSID 19170050 #289 11dq) WSID 19170050 #290 11dr) WSID 19170050 #291 11ds) WSID 19170050 #292 11dt) WSID 19170050 #293 11du) WSID 19170050 #294 11dv) WSID 19170050 #295 11dw) WSID 19170050 #296 11dx) WSID 19170050 #297 11dy) WSID 19170050 #298 11dz) WSID 19170050 #299 11ea) WSID 19170050 #300 11eb) WSID 19170050 #301 11ec) WSID 19170050 #302 11ed) WSID 19170050 #303 11ee) WSID 19170050 #304 11ef) WSID 19170050 #305 11eg) WSID 19170050 #306 11eh) WSID 19170050 #307 11ei) WSID 19170050 #308 11ej) WSID 19170050 #309 11ek) WSID 19170050 #310 11el) WSID 19170050 #311 11em) WSID 19170050 #312 11en) WSID 19170050 #313 11eo) WSID 19170050 #314 11ep) WSID 19170050 #315 11eq) WSID 19170050 #316 11er) WSID 19170050 #317 11es) WSID 19170050 #318 11et) WSID 19170050 #319 11eu) WSID 19170050 #320 11ev) WSID 19170050 #321 11ew) WSID 19170050 #322 11ex) WSID 19170050 #323 11ey) WSID 19170050 #324 11ez) WSID 19170050 #325 11fa) WSID 19170050 #326 11fb) WSID 19170050 #327 11fc) WSID 19170050 #328 11fd) WSID 19170050 #329 11fe) WSID 19170050 #330 11ff) WSID 19170050 #331 11fg) WSID 19170050 #332 11fh) WSID 19170050 #333 11fi) WSID 19170050 #334 11fj) WSID 19170050 #335 11fk) WSID 19170050 #336 11fl) WSID 19170050 #337 11fm) WSID 19170050 #338 11fn) WSID 19170050 #339 11fo) WSID 19170050 #340 11fp) WSID 19170050 #341 11fq) WSID 19170050 #342 11fr) WSID 19170050 #343 11fs) WSID 19170050 #344 11ft) WSID 19170050 #345 11fu) WSID 19170050 #346 11fv) WSID 19170050 #347 11fw) WSID 19170050 #348 11fx) WSID 19170050 #349 11fy) WSID 19170050 #350 11fz) WSID 19170050 #351 11ga) WSID 19170050 #352 11gb) WSID 19170050 #353 11gc) WSID 19170050 #354 11gd) WSID 19170050 #355 11ge) WSID 19170050 #356 11gf) WSID 19170050 #357 11gg) WSID 19170050 #358 11gh) WSID 19170050 #359 11gi) WSID 19170050 #360 11gj) WSID 19170050 #361 11gk) WSID 19170050 #362 11gl) WSID 19170050 #363 11gm) WSID 19170050 #364 11gn) WSID 19170050 #365 11go) WSID 19170050 #366 11gp) WSID 19170050 #367 11gq) WSID 19170050 #368 11gr) WSID 19170050 #369 11gs) WSID 19170050 #370 11gt) WSID 19170050 #371 11gu) WSID 19170050 #372 11gv) WSID 19170050 #373 11gw) WSID 19170050 #374 11gx) WSID 19170050 #375 11gy) WSID 19170050 #376 11gz) WSID 19170050 #377 11ha) WSID 19170050 #378 11hb) WSID 19170050 #379 11hc) WSID 19170050 #380 11hd) WSID 19170050 #381 11he) WSID 19170050 #382 11hf) WSID 19170050 #383 11hg) WSID 19170050 #384 11hh) WSID 19170050 #385 11hi) WSID 19170050 #386 11hj) WSID 19170050 #387 11hk) WSID 19170050 #388 11hl) WSID 19170050 #389 11hm) WSID 19170050 #390 11hn) WSID 19170050 #391 11ho) WSID 19170050 #392 11hp) WSID 19170050 #393 11hq) WSID 19170050 #394 11hr) WSID 19170050 #395 11hs) WSID 19170050 #396 11ht) WSID 19170050 #397 11hu) WSID 19170050 #398 11hv) WSID 19170050 #399 11hw) WSID 19170050 #400 11hx) WSID 19170050 #401 11hy) WSID 19170050 #402 11hz) WSID 19170050 #403 11ia) WSID 19170050 #404 11ib) WSID 19170050 #405 11ic) WSID 19170050 #406 11id) WSID 19170050 #407 11ie) WSID 19170050 #408 11if) WSID 19170050 #409 11ig) WSID 19170050 #410 11ih) WSID 19170050 #411 11ii) WSID 19170050 #412 11ij) WSID 19170050 #413 11ik) WSID 19170050 #414 11il) WSID 19170050 #415 11im) WSID 19170050 #416 11in) WSID 19170050 #417 11io) WSID 19170050 #418 11ip) WSID 19170050 #419 11iq) WSID 19170050 #420 11ir) WSID 19170050 #421 11is) WSID 19170050 #422 11it) WSID 19170050 #423 11iu) WSID 19170050 #424 11iv) WSID 19170050 #425 11iw) WSID 19170050 #426 11ix) WSID 19170050 #427 11iy) WSID 19170050 #428 11iz) WSID 19170050 #429 11ja) WSID 19170050 #430 11jb) WSID 19170050 #431 11jc) WSID 19170050 #432 11jd) WSID 19170050 #433 11je) WSID 19170050 #434 11jf) WSID 19170050 #435 11jg) WSID 19170050 #436 11jh) WSID 19170050 #437 11ji) WSID 19170050 #438 11jj) WSID 19170050 #439 11jk) WSID 19170050 #440 11jl) WSID 19170050 #441 11jm) WSID 19170050 #442 11jn) WSID 19170050 #443 11jo) WSID 19170050 #444 11jp) WSID 19170050 #445 11jq) WSID 19170050 #446 11jr) WSID 19170050 #447 11js) WSID 19170050 #448 11jt) WSID 19170050 #449 11ju) WSID 19170050 #450 11jv) WSID 19170050 #451 11jw) WSID 19170050 #452 11jx) WSID 19170050 #453 11jy) WSID 19170050 #454 11jz) WSID 19170050 #455 11ka) WSID 19170050 #456 11kb) WSID 19170050 #457 11kc) WSID 19170050 #458 11kd) WSID 19170050 #459 11ke) WSID 19170050 #460 11kf) WSID 19170050 #461 11kg) WSID 19170050 #462 11kh) WSID 19170050 #463 11ki) WSID 19170050 #464 11kj) WSID 19170050 #465 11kk) WSID 19170050 #466 11kl) WSID 19170050 #467 11km) WSID 19170050 #468 11kn) WSID 19170050 #469 11ko) WSID 19170050 #470 11kp) WSID 19170050 #471 11kq) WSID 19170050 #472 11kr) WSID 19170050 #473 11ks) WSID 19170050 #474 11kt) WSID 19170050 #475 11ku) WSID 19170050 #476 11kv) WSID 19170050 #477 11kw) WSID 19170050 #478 11kx) WSID 19170050 #479 11ky) WSID 19170050 #480 11kz) WSID 19170050 #481 11la) WSID 19170050 #482 11lb) WSID 19170050 #483 11lc) WSID 19170050 #484 11ld) WSID 19170050 #485 11le) WSID 19170050 #486 11lf) WSID 19170050 #487 11lg) WSID 19170050 #488 11lh) WSID 19170050 #489 11li) WSID 19170050 #490 11lj) WSID 19170050 #491 11lk) WSID 19170050 #492 11ll) WSID 19170050 #493 11lm) WSID 19170050 #494 11ln) WSID 19170050 #495 11lo) WSID 19170050 #496 11lp) WSID 19170050 #497 11lq) WSID 19170050 #498 11lr) WSID 19170050 #499 11ls) WSID 19170050 #500 11lt) WSID 19170050 #501 11lu) WSID 19170050 #502 11lv) WSID 19170050 #503 11lw) WSID 19170050 #504 11lx) WSID 19170050 #505 11ly) WSID 19170050 #506 11lz) WSID 19170050 #507 11ma) WSID 19170050 #508 11mb) WSID 19170050 #509 11mc) WSID 19170050 #510 11md) WSID 19170050 #511 11me) WSID 19170050 #512 11mf) WSID 19170050 #513 11mg) WSID 19170050 #514 11mh) WSID 19170050 #515 11mi) WSID 19170050 #516 11mj) WSID 19170050 #517 11mk) WSID 19170050 #518 11ml) WSID 19170050 #519 11mo) WSID 19170050 #520 11mn) WSID 19170050 #521 11mp) WSID 19170050 #522 11mq) WSID 19170050 #523 11mr) WSID 19170050 #524 11ms) WSID 19170050 #525 11mt) WSID 19170050 #526 11mu) WSID 19170050 #527 11mv) WSID 19170050 #528 11mw) WSID 19170050 #529 11mx) WSID 19170050 #530 11my) WSID 19170050 #531 11mz) WSID 19170050 #532 11na) WSID 19170050 #533 11nb) WSID 19170050 #534 11nc) WSID 19170050 #535 11nd) WSID 19170050 #536 11ne) WSID 19170050 #537 11nf) WSID 19170050 #538 11ng) WSID 19170050 #539 11nh) WSID 19170050 #540 11ni) WSID 19170050 #541 11nj) WSID 19170050 #542 11nk) WSID 19170050 #543 11nl) WSID 19170050 #544 11nm) WSID 19170050 #545 11nn) WSID 19170050 #546 11no) WSID 19170050 #547 11np) WSID 19170050 #548 11nq) WSID 19170050 #549 11nr) WSID 19170050 #550 11ns) WSID 19170050 #551 11nt) WSID 19170050 #552 11nu) WSID 19170050 #553 11nv) WSID 19170050 #554 11nw) WSID 19170050 #555 11nx) WSID 19170050 #556 11ny) WSID 19170050 #557 11nz) WSID 19170050 #558 11oa) WSID 19170050 #559 11ob) WSID 19170050 #560 11oc) WSID 19170050 #561 11od) WSID 19170050 #562 11oe) WSID 19170050 #563 11of) WSID 19170050 #564 11og) WSID 19170050 #565 11oh) WSID 19170050 #566 11oi) WSID 19170050 #567 11oj) WSID 19170050 #568 11ok) WSID 19170050 #569 11ol) WSID 19170050 #570 11om) WSID 19170050 #571 11on) WSID 19170050 #572 11oo) WSID 19170050 #573 11op) WSID 19170050 #574 11oq) WSID 19170050 #575 11or) WSID 19170050 #576 11os) WSID 19170050 #577 11ot) WSID 19170050 #578 11ou) WSID 19170050 #579 11ov) WSID 19170050 #580 11ow) WSID 19170050 #581 11ox) WSID 19170050 #582 11oy) WSID 19170050 #583 11oz) WSID 19170050 #584 11pa) WSID 19170050 #585 11pb) WSID 19170050 #586 11pc) WSID 19170050 #587 11pd) WSID 19170050 #588 11pe) WSID 19170050 #589 11pf) WSID 19170050 #590 11pg) WSID 19170050 #591 11ph) WSID 19170050 #592 11pi) WSID 19170050 #593 11pj) WSID 19170050 #594 11pk) WSID 19170050 #595 11pl) WSID 19170050 #596 11pm) WSID 19170050 #597 11pn) WSID 19170050 #598 11po) WSID 19170050 #599 11pp) WSID 19170050 #600 11pq) WSID 19170050 #601 11pr) WSID 19170050 #602 11ps) WSID 19170050 #603 11pt) WSID 19170050 #604 11pu) WSID 19170050 #605 11pv) WSID 19170050 #606 11pw) WSID 19170050 #607 11px) WSID 19170050 #608 11py) WSID 19170050 #609 11pz) WSID 19170050 #610 11qa) WSID 19170050 #611 11qb) WSID 19170050 #612 11qc) WSID 19170050 #613 11qd) WSID 19170050 #614 11qe) WSID 19170050 #615 11qf) WSID 19170050 #616 11qg) WSID 19170050 #617 11qh) WSID 19170050 #618 11qi) WSID 19170050 #619 11qj) WSID 19170050 #620 11qk) WSID 19170050 #621 11ql) WSID 19170050 #622 11qm) WSID 19170050 #623 11qn) WSID 19170050 #624 11qo) WSID 19170050 #625 11qp) WSID 19170050 #626 11qq) WSID 19170050 #627 11qr) WSID 19170050 #628 11qs) WSID 19170050 #629 11qt) WSID 19170050 #630 11qu) WSID 19170050 #631 11qv) WSID 19170050 #632 11qw) WSID 19170050 #633 11qx) WSID 19170050 #634 11qy) WSID 19170050 #635 11qz) WSID 19170050 #636 11ra) WSID 19170050 #637 11rb) WSID 19170050 #638 11rc) WSID 19170050 #639 11rd) WSID 19170050 #640 11re) WSID 19170050 #641 11rf) WSID 19170050 #642 11rg) WSID 19170050 #643 11rh) WSID 19170050 #644 11ri) WSID 19170050 #645 11rj) WSID 19170050 #646 11rk) WSID 19170050 #647 11rl) WSID 19170050 #648 11rm) WSID 19170050 #649 11rn) WSID 19170050 #650 11ro) WSID 19170050 #651 11rp) WSID 19170050 #652 11rq) WSID 19170050 #653 11rr) WSID 19170050 #654 11rs) WSID 19170050 #655 11rt) WSID 19170050 #656 11ru) WSID 19170050 #657 11rv) WSID 19170050 #658 11rw) WSID 19170050 #659 11rx) WSID 19170050 #660 11ry) WSID 19170050 #661 11rz) WSID 19170050 #662 11sa) WSID 19170050 #663 11sb) WSID 19170050 #664 11sc) WSID 19170050 #665 11sd) WSID 19170050 #666 11se) WSID 19170050 #667 11sf) WSID 19170050 #668 11sg) WSID 19170050 #669 11sh) WSID 19170050 #670 11si) WSID 19170050 #671 11sj) WSID 19170050 #672 11sk) WSID 19170050 #673 11sl) WSID 19170050 #674 11sm) WSID 19170050 #675 11sn) WSID 19170050 #676 11so) WSID 19170050 #677 11sp) WSID 19170050 #678 11sq) WSID 19170050 #679 11sr) WSID 19170050 #680 11ss) WSID 19170050 #681 11st) WSID 19170050 #682 11su) WSID 19170050 #683 11sv) WSID 19170050 #684 11sw) WSID 19170050 #685 11sx) WSID 19170050 #686 11sy) WSID 19170050 #687 11sz) WSID 19170050 #688 11ta) WSID 19170050 #689 11tb) WSID 19170050 #690 11tc) WSID 19170050 #691 11td) WSID 19170050 #692 11te) WSID 19170050 #693 11tf) WSID 19170050 #694 11tg) WSID 19170050 #695 11th) WSID 19170050 #696 11ti) WSID 19170050 #697 11tj) WSID 19170050 #698 11tk)						

**APPENDIX I**

**IDAHO STATE JOURNAL NEWSPAPER ARTICLE**



11/13/90 IDAHO STATE JOURNAL - POCAHELLO, ID

# Cleanup crew finds toxic substances at site

By Desiral Rushforth Schild  
Of The Journal

FORT HALL — The Environmental Protection Agency is doing a detailed cleanup of toxic wastes at the former Youngstrom Log Homes site on the Fort Hall Indian Reservation.

The site is on State Highway 91, about a mile west of the first Blackfoot exit off Interstate 15. The cleanup began last Thursday and is expected to be completed by Nov. 22.

Contracted EPA workers have found numerous containers of such toxic substances as paint, solvent and roof sealant, said Carl Kitz, EPA Region 10 official from Seattle.

Kitz said all the workers wear masks while searching the build-

ings because they are aware of the possibility of contracting hantavirus from mouse droppings.

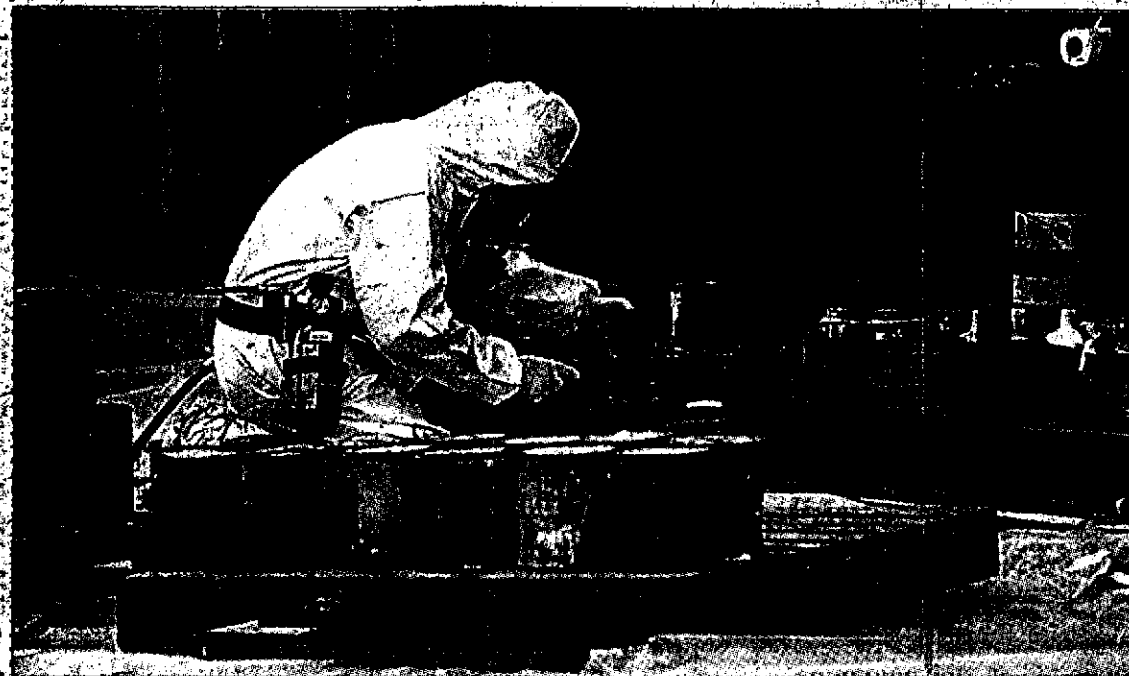
A hantavirus case was reported last summer at the reservation. The Idaho health department said the male victim appeared to have been exposed to mouse droppings inside and outside an old building.

The cleanup crew discovered the toxic substances were contained in a variety of containers ranging from 55-gallon metal drums to small rusted paint cans.

The EPA responded to a request from the Shoshone-Bannock Tribes to clean up the site, Kitz said. The tribes could not afford the cleanup, so the EPA is looking for other ways to defray the costs.

He said the organization plans to recycle as many of the products

See TOXIC, A7 ►



Journal photo by Kathy Corgatelli

A CET employee contracted by the Environmental Protection Agency looks into rusted cans at the former Youngstrom Log Homes site in Fort Hall.

## Toxic

Continued from A1

is possible to recover clean-up costs. Empty drums are being flattened to make transporting them easier.

Non-recyclable items will probably be taken to the nearest toxic waste disposal site, Kitz said.

Crews also are doing chemical tests to determine what all the substances are, Kitz said.

He said he did not know if the substances were left behind when Youngstrom Log Homes left the site several years ago or if other people used the deserted buildings to store waste.

No one at the tribal office was available for comment this morning.